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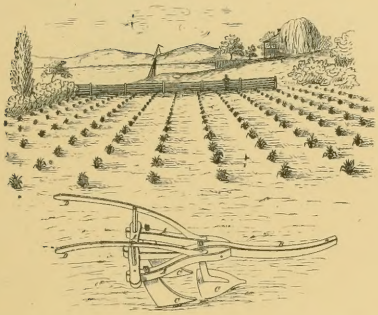
AGRICULTURAL COLLEGE

T. Borden.

Cultivator.

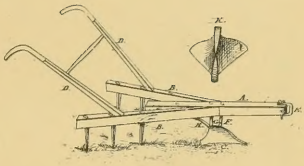
Patented Jan 13, 1830.



H. Higley.

Cultivator.

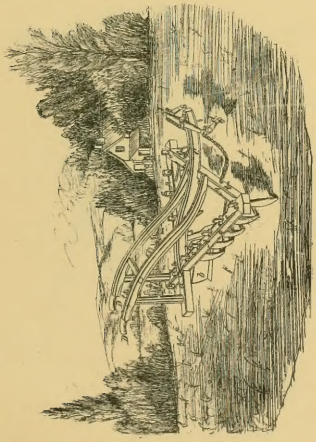
Patented Dec. 11, 1832.



I. Reichard.

Cultivator.

Patented Dec. 16, 1833.



S. Olmz.

Cultivator.

Patented Jul 17, 1835.

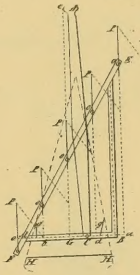


Fig. 1.

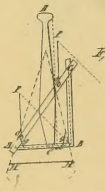
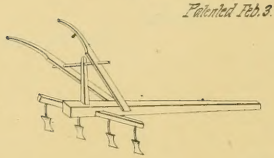


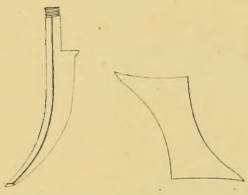
Fig. 2.

J. M. Garnett,

Cultivator.

Patented Feb. 3. 1836.

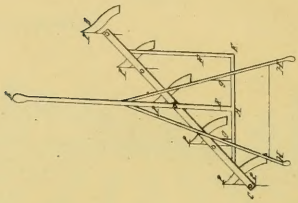




S. Cline.

Cultivator.

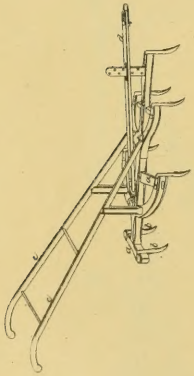
Patented Oct 15, 1836.



W. I. Shull.

Cultivator.

Patented Nov 26, 1836.

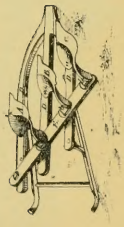


J. Knodle,

Cultivator,

Nº 1543.

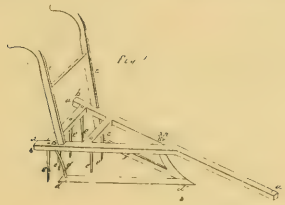
Patented Apr. 8. 1840.

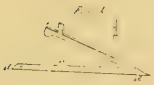


N. Barnes.

Cultivator.

No. 2,779 Patented Sept. 10, 1840.

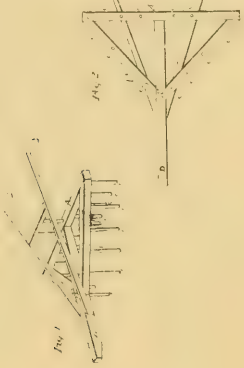




W. A. Rogers.

Cultivator.

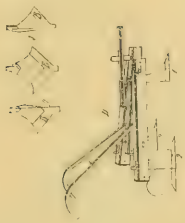
No. 25,726. Patented Apr. 11, 1892.



Wood, Wells & Bates.

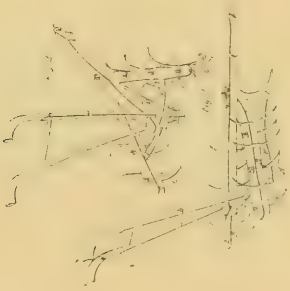
Cultivator.

No. 2,614. Patented May 28, 1842.

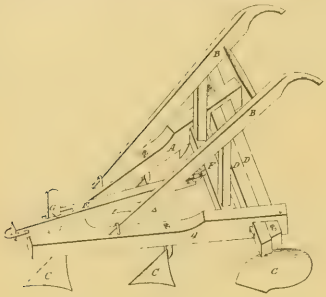


Witnesses.

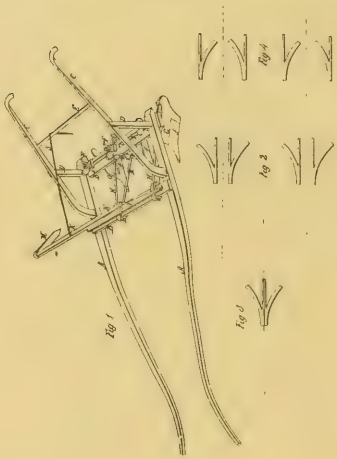
Inventors.



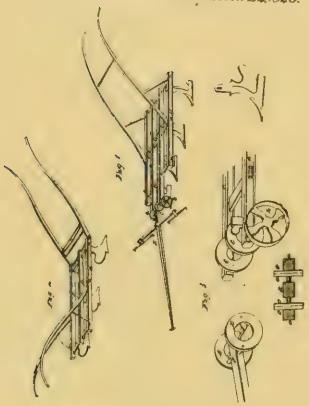
M. J. Hunt,
Cultivator,
No. 2792. Patented Sept. 30, 1842.



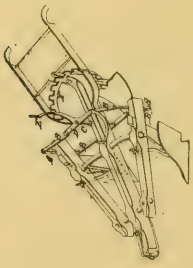
J. Parsons, Jr.
Cultivator
No. 8,879 Patented Dec. 18, 1842.



T. Wharr
Cultivator
No. 3,366. Patented Nov. 24, 1843.



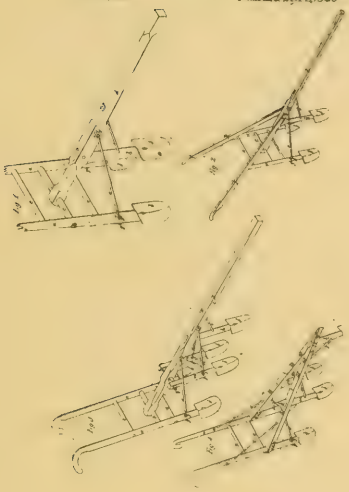
R. Nelson.
Cultivator,
No. 3,405. Patented Jan. 15, 1844.



A. Harrison.

Cultivator

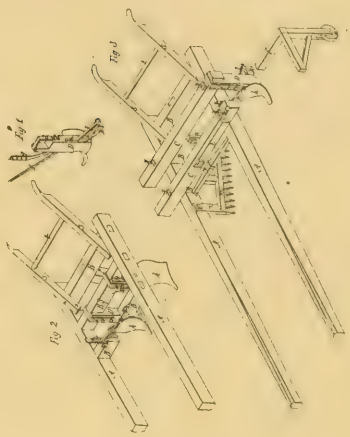
No. 170 Patented Mar. 2, 1846



A. Ralston.

Cultivator.

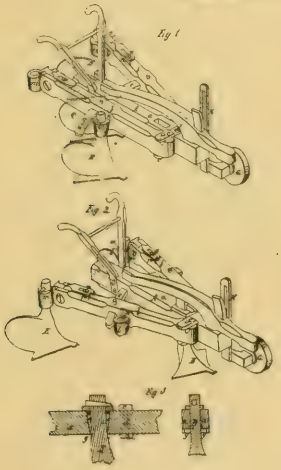
No. 4,171. Patented Sept. 2, 1846



A. Eldred.

Cultivator

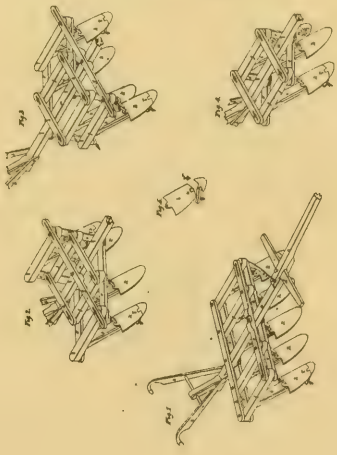
No. 4,320. Patented Dec. 20, 1846.



W. Dysert.

Cultivator.

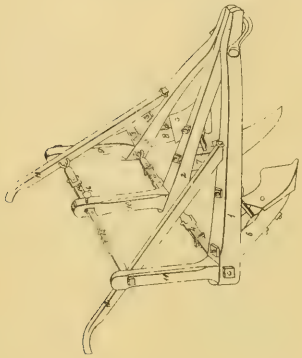
No. 4,785. Patented Aug. 29, 1846



I. Edwards.

Cultivator.

No. 4,762. Patented Sept. 19, 1846.



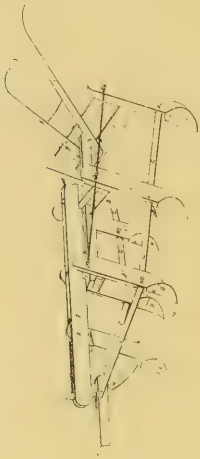
Witnesses:

Inventor

I. Pa[illegible]

Cultivator

No. 5,630 Patented Jun 20 1849



K. Criswell, Jr.

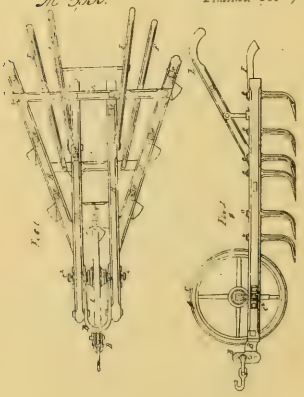
Cultivator.

No. 5,155. Patented Feb. 5, 1848.

G. Beeching,

Cultivator.

No. 5,859. Patented Oct. 17, 1848.



A. Leland

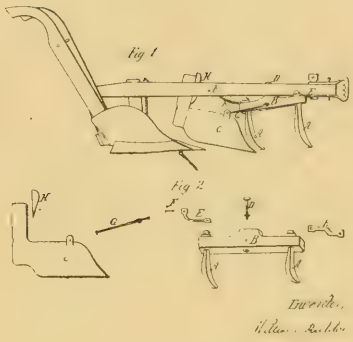
Cultivator

No. 5,979 Patented Jan. 2, 1849

V. Richter

Cultivator

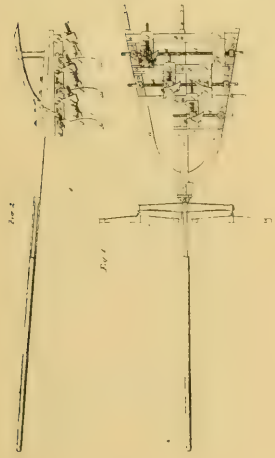
No. 6,007 Patented Jan. 9, 1849



J. Morris

Cultivator

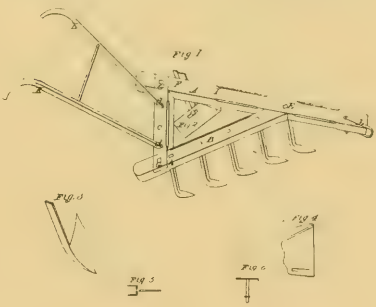
No. 6,167 Patented Mar. 13, 1849



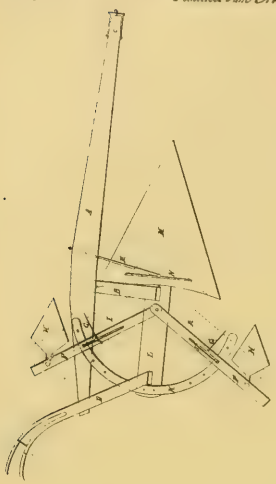
S. W. Ritter

Cultivator

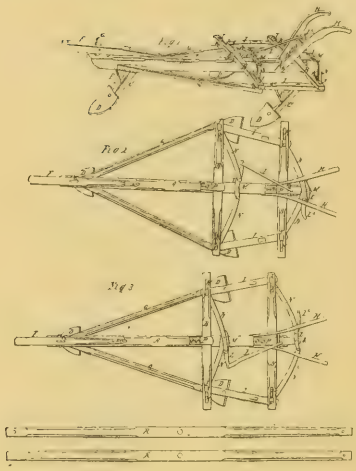
No. 6,204. Patented Mar. 20, 1849



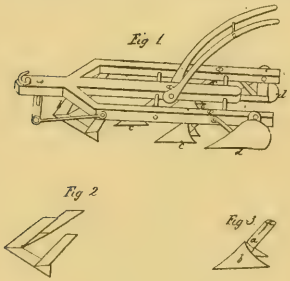
S. Chalf,
Cultivator.
No. 6501. Patented June 5. 1849.



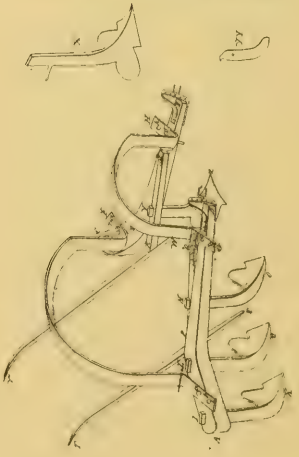
G. H. Brown,
Cultivator.
No. 6511. Patented June 5. 1849.



C. Rodger.
Cultivator
No 7,463. Patented Jan. 26, 1850.



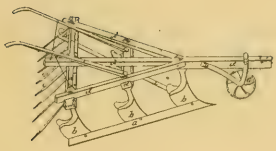
I. Constant.
Cultivator
No 8,463. Patented Nov 4, 1851



Ball & Foste,

Cultivator.

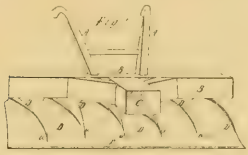
No. 8850. Patented Apr. 6. 1852.

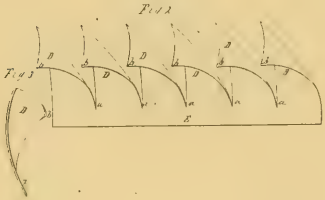


C. Bishop.

Cultivator.

No. 9,314. Patented Oct. 12, 1852.

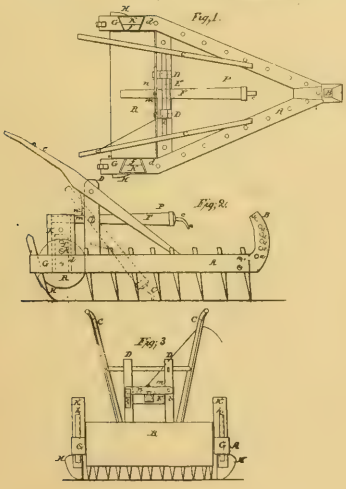




P. H. Hech.

Cultivator.

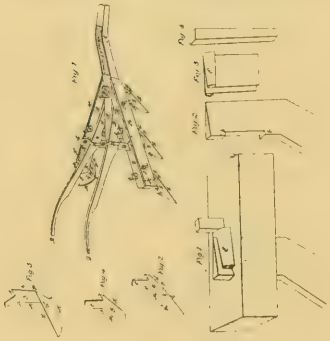
No. 9,754. Patented May 31, 1853.



E. L. Freeman.

Cultivator.

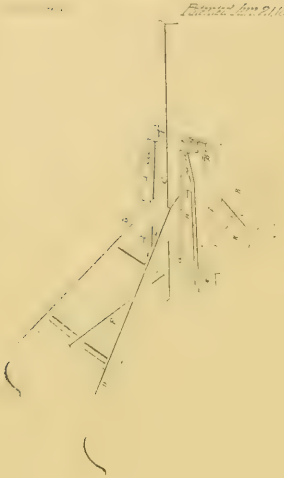
No. 9,796 Patented Jun. 21, 1853.



W. S. Hyde.

Cultivator

Patented June 9, 1863

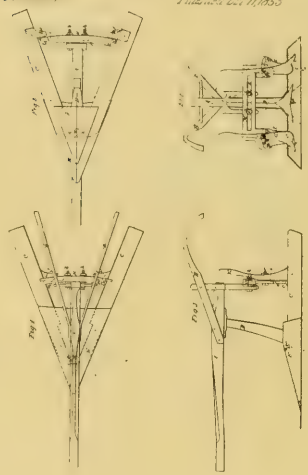


L. M. Whitmore

Cultivator

No. 10,

Patented Oct 11, 1853

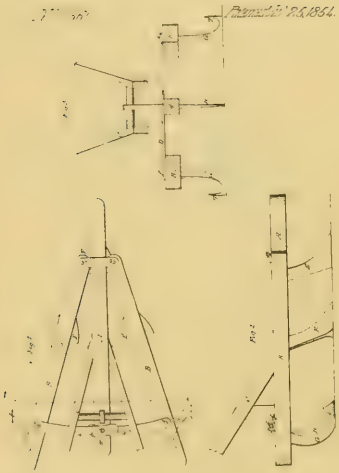


C. H. Dunn.

Cultivator.

No. 10,

Patented Oct 9, 1854.

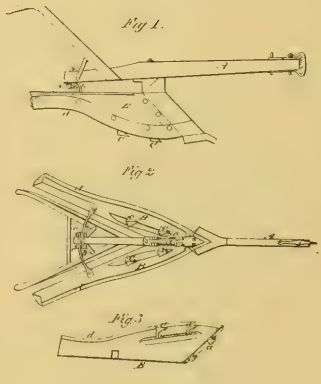


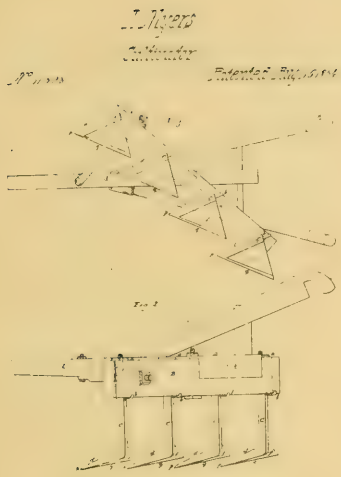
D. W. Shares.

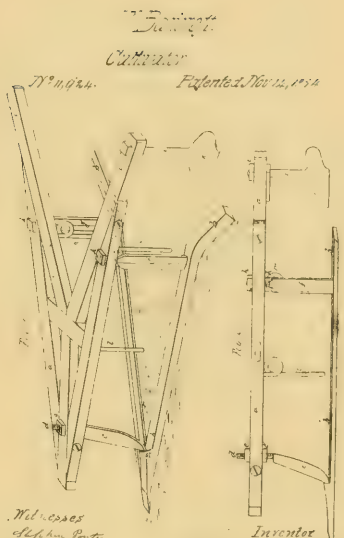
Cultivator

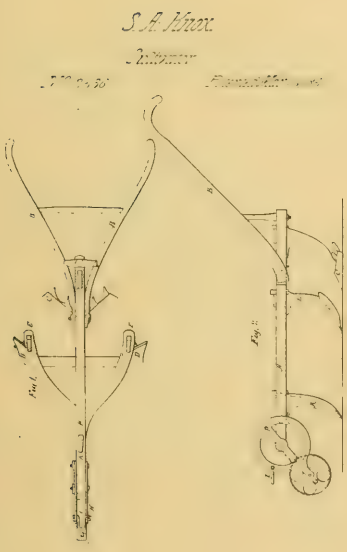
No. 11,460.

Patented Aug 1, 1854




Cultivator
Fig. 1


Cultivator
Patented Nov 12, 1854
Witnesses
Inventor
William Bancroft

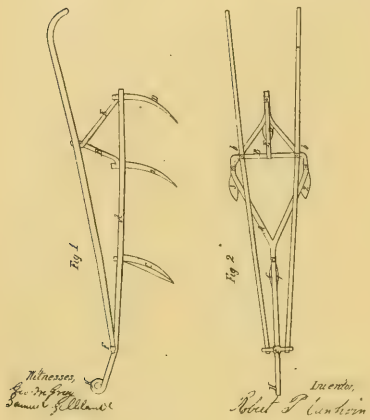

Cultivator
Fig. 1
Fig. 2

Patented Nov 20, 1855.

R. P. Vanhorn.

Cultivator.

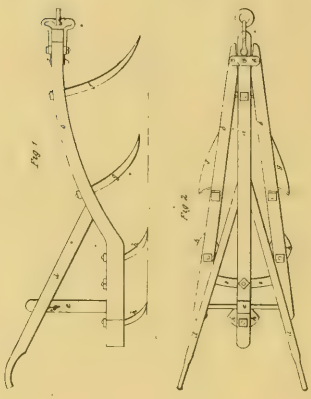
No. 12,604. Patented Mar. 27, 1855.



M. P. Zane

Cultivator

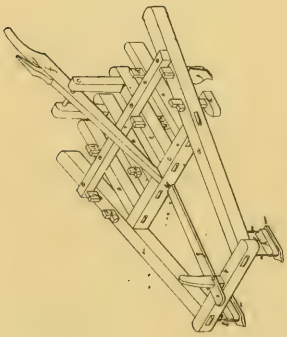
No. 12,611. Patented Mar. 27, 1855.



J. Stryker,

Cultivator.

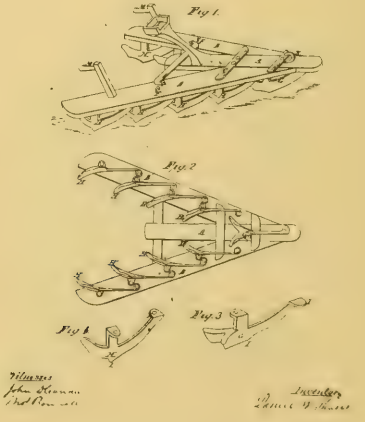
No. 12,714. Patented Apr. 17, 1855.



D. W. Shares,

Cultivator.

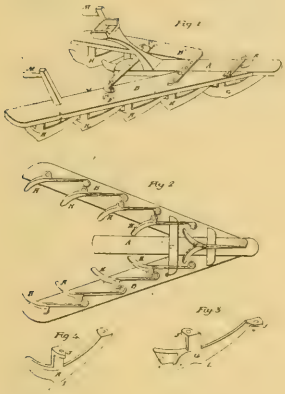
No. 10,698. Patented Sept. 20, 1847.



D. W. Shores.

Cultivator.

No. 46. 1150 Patented Mar. 12, 1861.

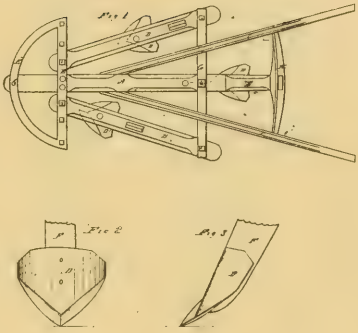


Witnesses
Inventor
D. W. Shores

J. B. Baker,

Cultivator.

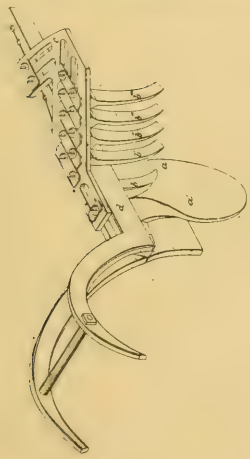
No. 18,906. Patented Mar. 31, 1857.



M. Tolle.

Cultivator.

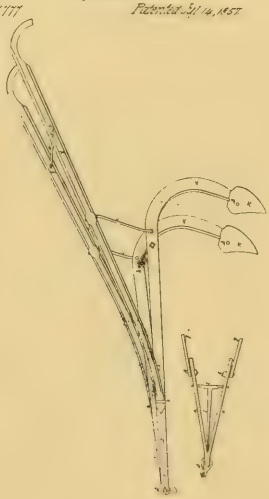
No. 17,594 Patented Jun 16, 1857.



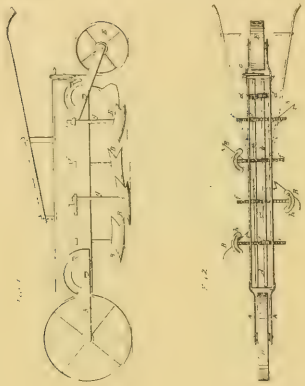
G. G. Black.

Cultivator

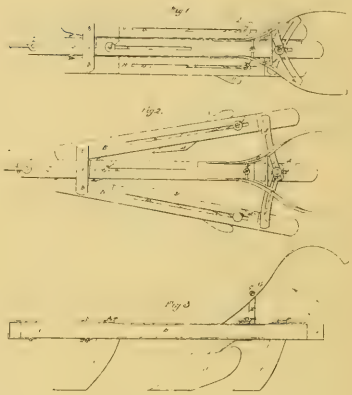
No. 17,177 Patented Jul 14, 1857.

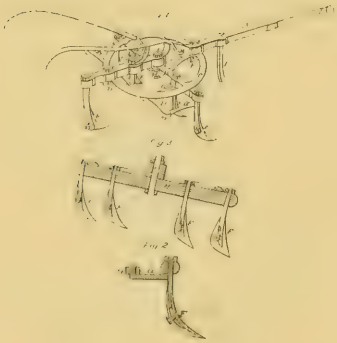


H. Mann,
Cultivator.
Patented July 14, 1857.

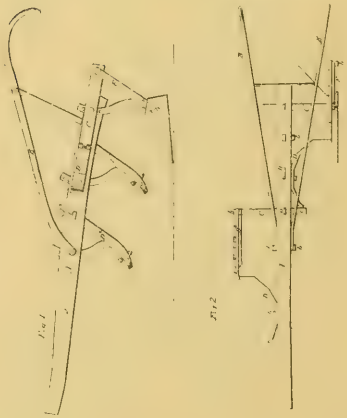


C. H. Stern.
Cultivator.
Patented Aug. 25, 1857.

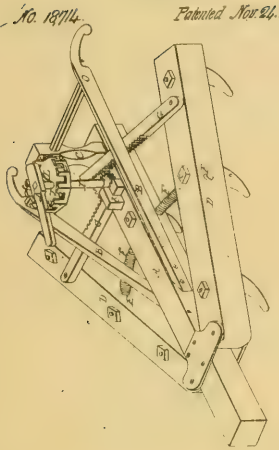




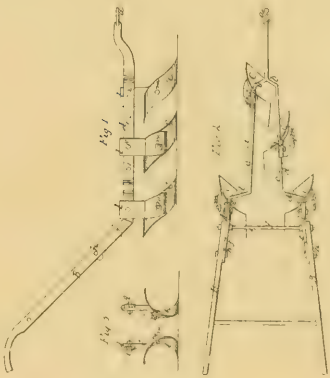
C. B. Magruder.
Cultivator.
No. 18,463. Patented Oct. 20, 1857.



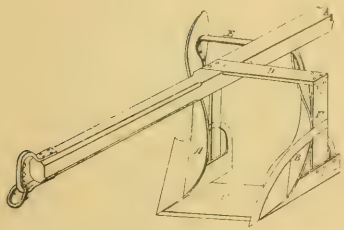
J. Sumner,
Cultivator.
No. 18714. Patented Nov. 24. 1857.



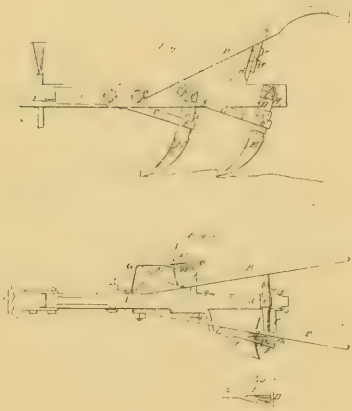
J. Gibbs;
Cultivator,
No. 18,739. Patented Dec. 1. 1857.



R. S. Stanton.
Cultivator
No. 18,825. Patented Dec. 8, 1857



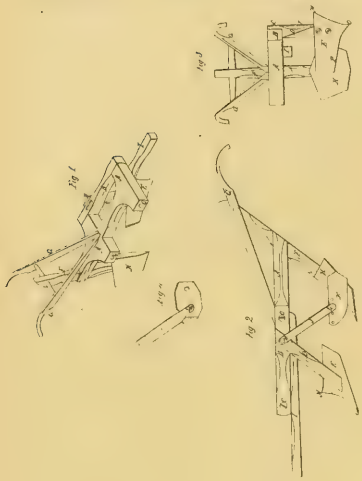
D. Eberly
Shovel Plow
No. 18,891 Patented Dec. 22. 1857.



A. W. Harder.

Cultivator.

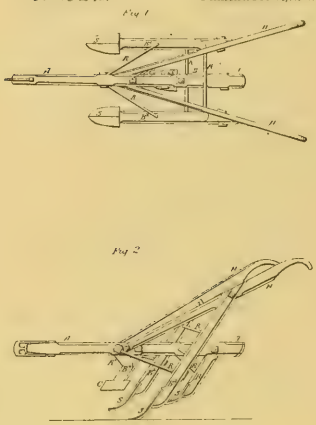
No. 18,900 Patented Dec. 22, 1857



J. Howth.

Cultivator.

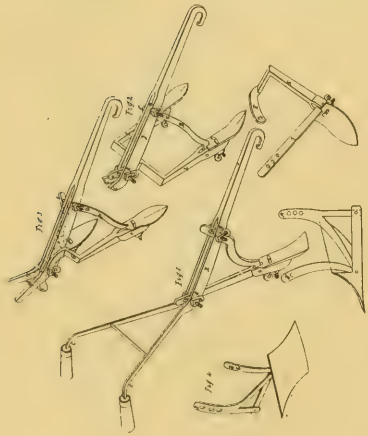
No. 19,248. Patented Feb. 2, 1858.



E. H. Bloodworth.

Cultivator.

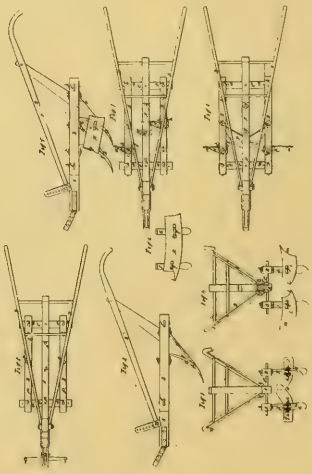
No. 19,401 Patented Feb. 16, 1858



J. Banks.

Cultivator.

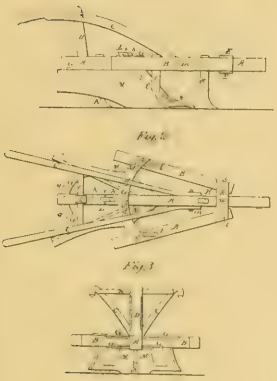
No. 19,728. Patented Mar. 30, 1858



L. W. Hally.

Cultivator.

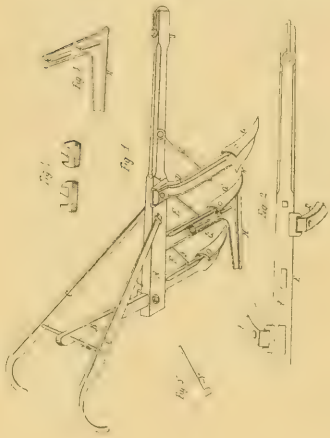
No. [illegible] Patented April 11, 1858



Endsley & Fletcher

Cultivator.

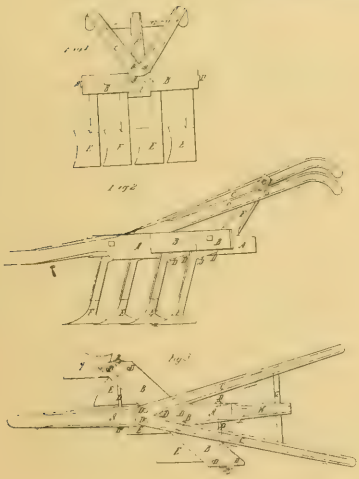
No. 20,260 Patented May 18, 1858



W. A. Hopkins.

Cultivator.

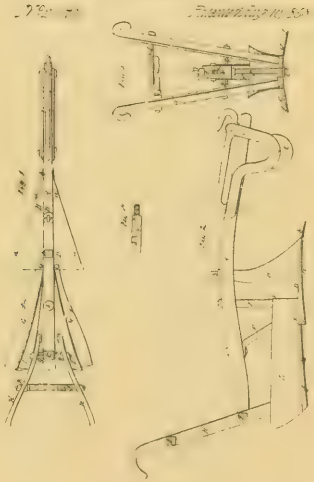
No. 20,718. Patented June 29, 1858.



R. Sawyer.

Cultivator.

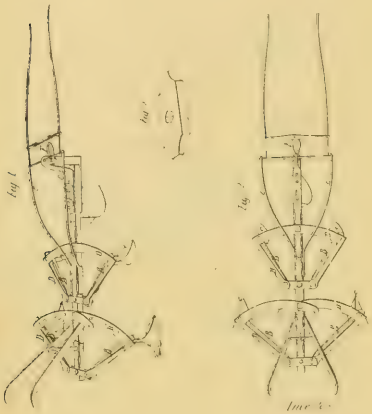
No. [illegible] Patented [illegible]



T. W. Poole.

Cultivator.

No. 21,625 Patented Sept. 28, 1858

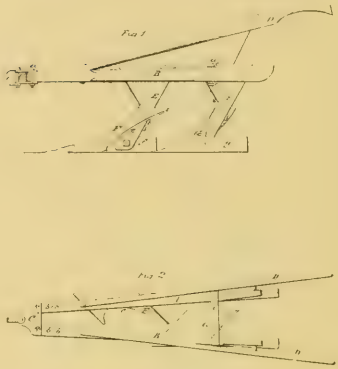


Inventor.
Thomas William Poole.

T. Turner,

Cultivator.

No. 22,316. Patented Dec. 14, 1858.



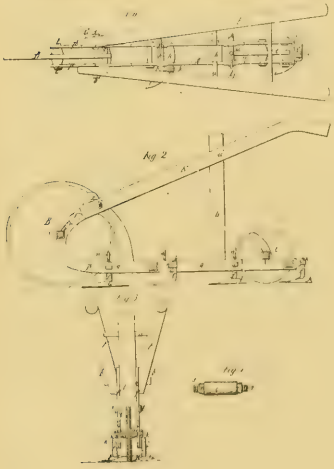
Witnesses
John H. Wood
C. W. Chalmers

Inventor
Elkanah Turner

T. Mills.

Cultivator.

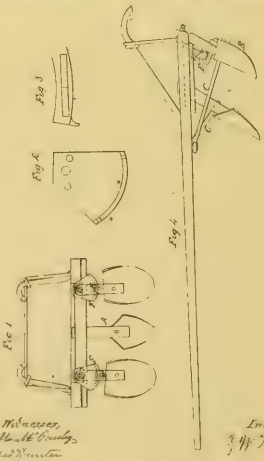
Patented Mar. 29, 1859



C. W. Tolhurst.

Cultivator.

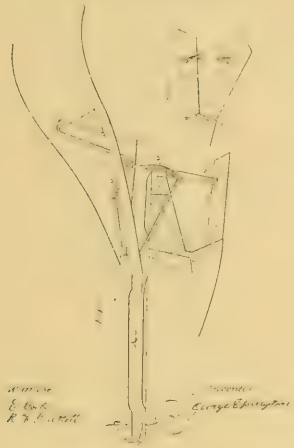
No. 88,520 Patented Mar. 4, 1869



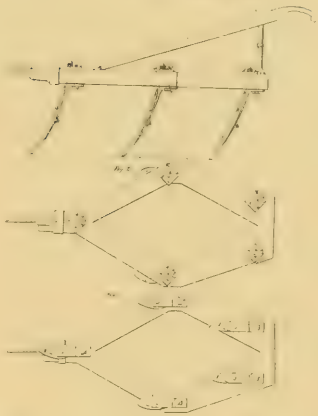
Witnesses,
Wm. Hewitt Crosby
Alfred Munster

Inventor.
J. W. Tolhurst

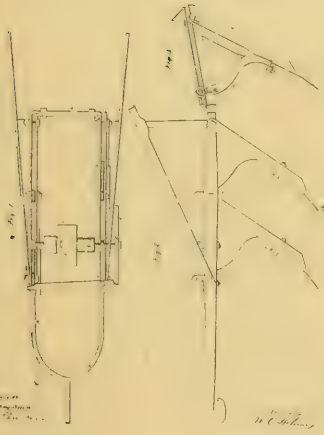
G. Essington
Cultivator
No. 22,860. Patented Feb. 8, 1859



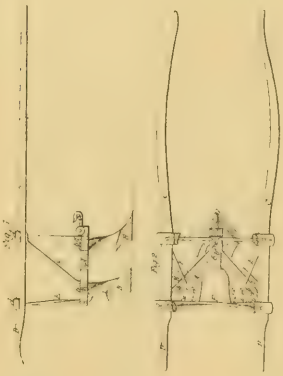
T. Herman
Cultivator
No. 23,170 Patented Mar. 8, 1859



W. C. Holmes
Cultivator
No. [illegible] Patented [illegible] 1859



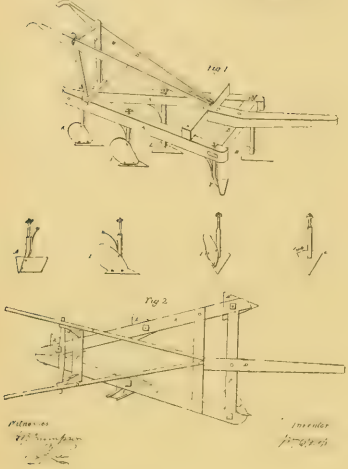
M. ALDEN.
Cultivator.
No. 23,846. Patented May 10, 1859



W. C. Doss.

Cultivator.

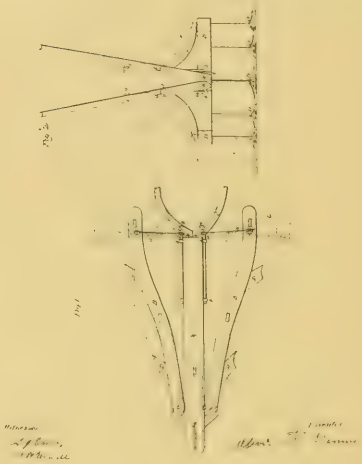
No. 23,906. Patented May 10, 1859.



O. H. Dennis.

Cultivator.

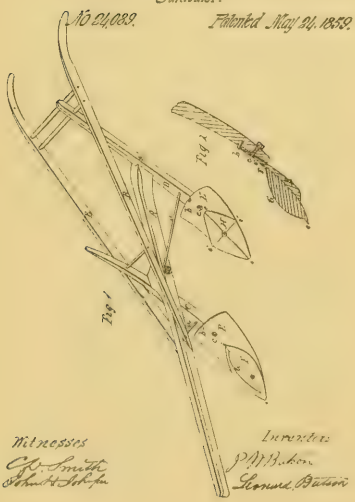
No. 24,013. Patented May 17, 1859.



J. M. L. Edson,

Cultivator.

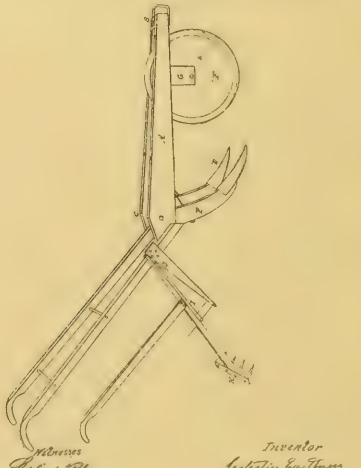
No. 24,089. Patented May 24, 1859.



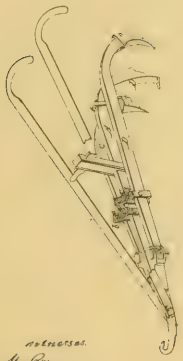
C. Eastburn.

Cultivator.

No. 24,403. Patented May 31, 1859.



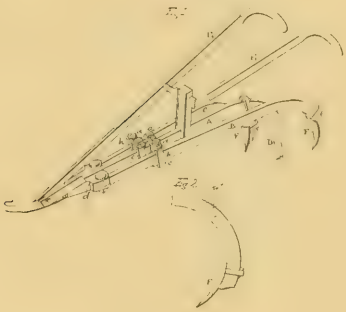
R. M. Melton,
Cultivator,
No. 44,227. Patented May 31, 1864.



Witnesses.
M. Pittman
Peter G. Yager

Inventor
R. M. Melton

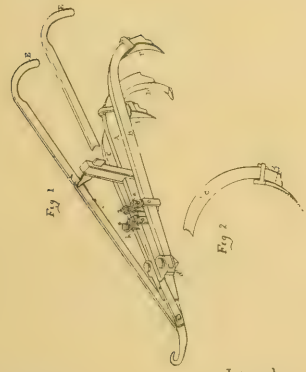
R. M. MELTON.
Cultivator.
No. 6,379. Reissued April 13, 1875



Witnesses
H. G. Stuart
W. R. Richards

Inventor
Reuben M. Melton
(by) A. McCallum
Atty

R. M. MELTON.
Improvement in Cultivators.
No. 4,875. Reissued April 16, 1872.



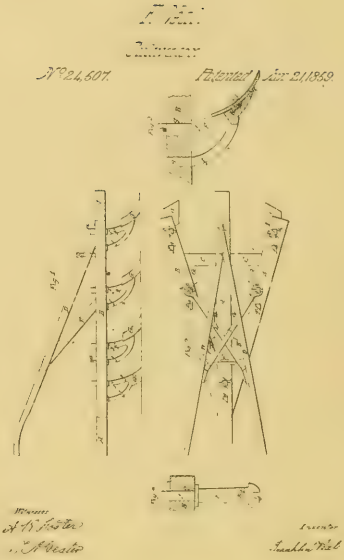
Witnesses:
O. G. Stuart
H. C. Knight

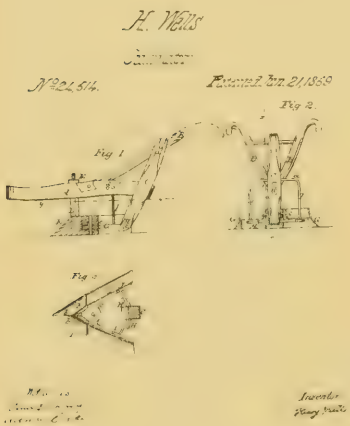
Inventor:
Reuben M. Melton
(by) A. McCallum
Atty

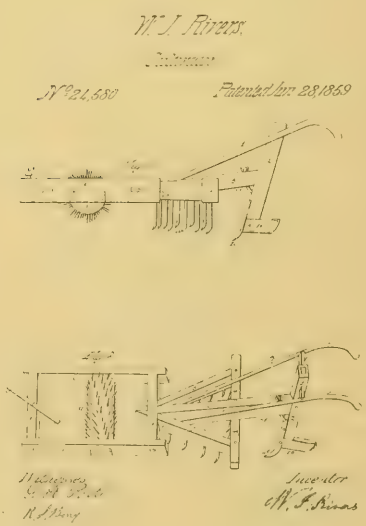
J. Young
Cultivator
No. 44,318 Patented Sept. 7, 1864

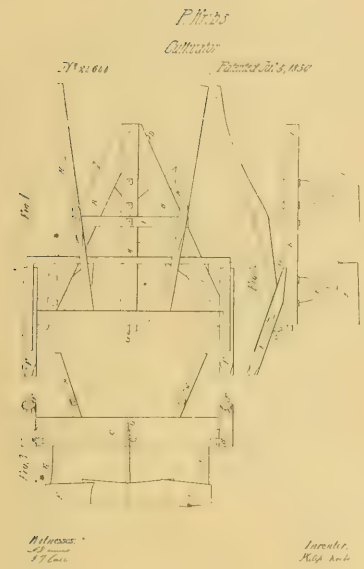
Witnesses
H. H. Young

Inventor
J. Young

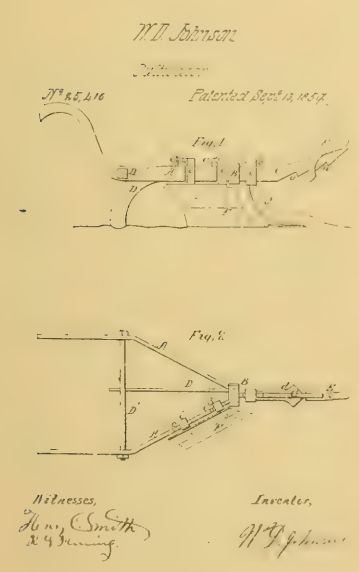

No 24,607.
Patented Jan 21 1859.

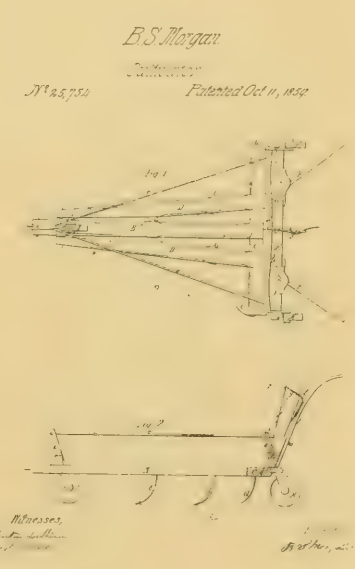

H. Wells
No 24,514.
Patented Jan 21 1859
Fig 2.
Fig 1

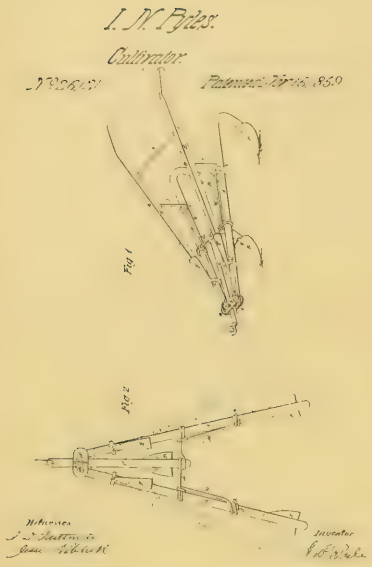

W. J. Rivers.
No 24,580
Patented Jan 28 1859

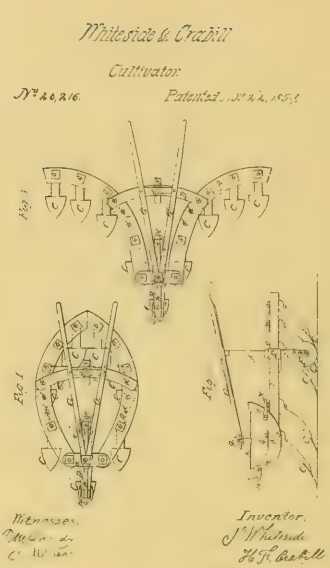

P. Phillips
Cultivator
Patented Oct 5, 1850
Witnesses:
Inventor.

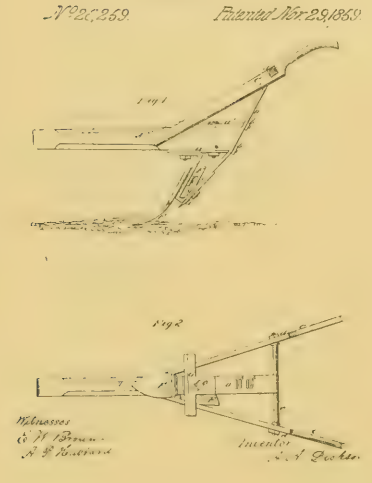
Witnesses
Inventor.
J. H. Frampton.

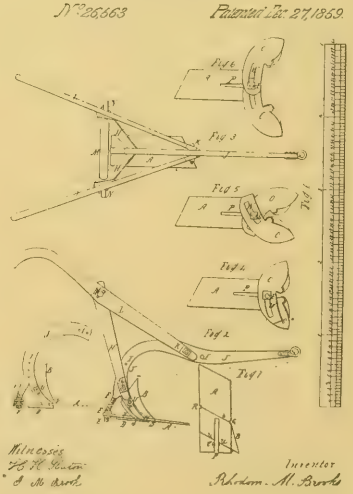

W. D. Johnson
Patented Sept 12, 1854
Fig. 1
Fig. 2
Witnesses,
Inventor,


B. S. Morgan
Patented Oct 11, 1854
Witnesses,


I. N. Fyles.
Cultivator.
Fig 1
Fig 2
Witnesses
Inventor


Whiteside & Crabill
Cultivator
Fig 3
Fig 1
Fig 2
Witnesses.
Inventor.
J. Whiteside.
H. F. Crabill

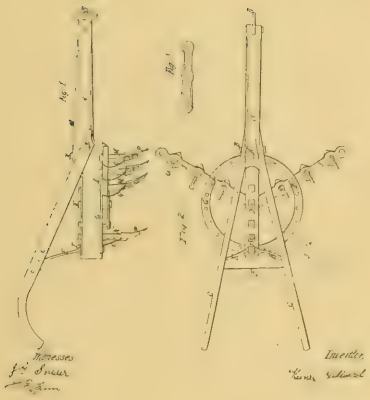

A. A. Dickson.
Cultivator.
Patented Nov 29, 1859.
Fig 1
Fig 2
Witnesses
Inventor


Cultivator.
Patented Dec. 27, 1859.
Fig 6
Fig 3
Fig 5
Fig 1
Fig 4
Fig 2
Fig 1
Witnesses
Inventor

H. Gilliard,

Cultivator.

No 20581. Patented Dec. 27, 1859.



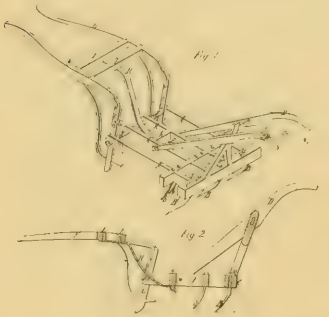
Witnesses
J. Sneer
E. Ryan

Inventor.
Henry Gilliard

F. Mongeau

Cultivator.

No 26,606 Patented Dec. 27, 1859



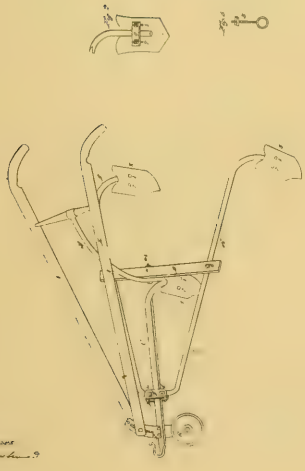
Witnesses
C. Cohen
Ph. Hermann.

Inventor,
Felix Mongeau
per Dr. Mongeau

M. L. Rogers

Cultivator

No 26,618 Patented Dec. 27, 1859

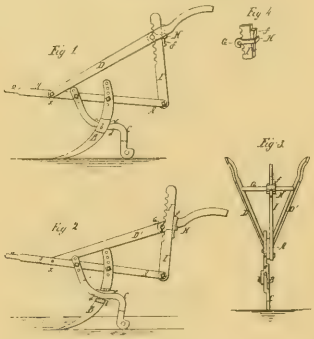


Witnesses
A. V. Brown 2d

J. L. Dutton, Jr.

Cultivator

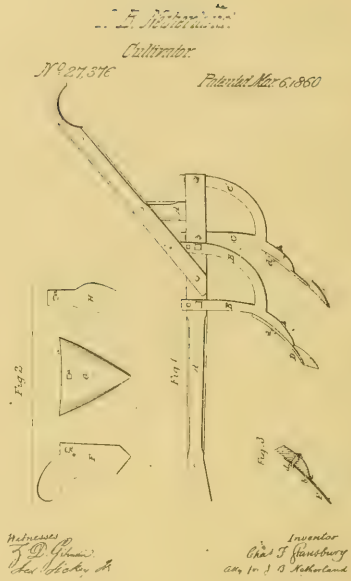
No 26,976. Patented Jan. 31, 1860



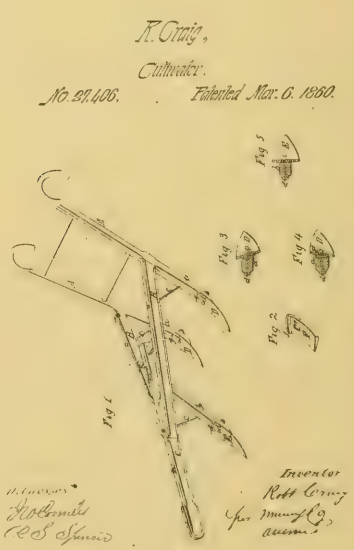
Witnesses,
Henry Hoover
Horace Gee

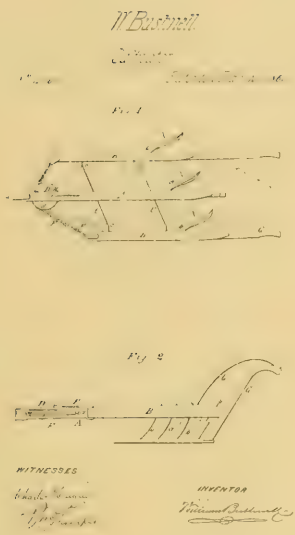
Inventor,
Joshua L. Dutton Jr.

Cultivator
Fig 1
Fig 2
Witnesses
Inventor


Cultivator
No 27,576
Patented Mar 6, 1860
Fig 1
Fig 2
Fig 3
Witnesses
Inventor

Cultivator
Patented Mar 6, 1860
Witnesses
Inventor

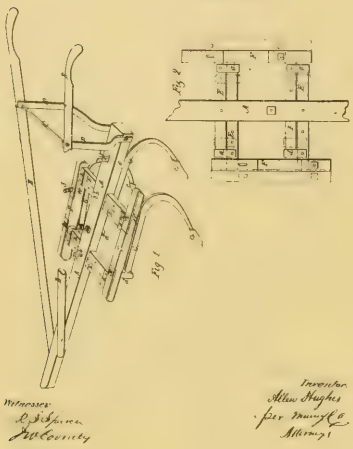

R. Craig,
Cultivator.
No. 27,406.
Patented Mar. 6. 1860.
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Witnesses
Inventor


W. Burdett
Fig. 1
Fig. 2
WITNESSES
INVENTOR

H. Shear
Cultivator
Patented Mar. 27, 1860
WITNESSES
Inventor

J. C. Christopher
WITNESSES

Patented Apr. 22, 1860
WITNESSES
INVENTOR


A. Hughes.
Cultivator.
No. 28,187
Patented May 29, 1860.
Fig. 2
Fig. 1
Witnesses:
Inventor:
Allen Hughes
per Munn & Co.
Attorneys

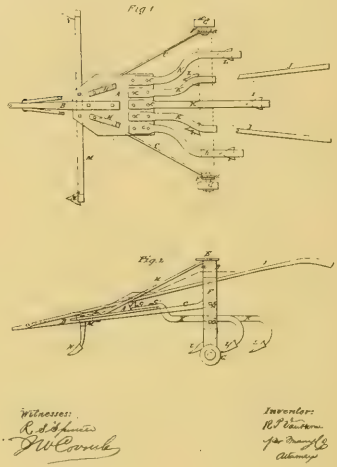
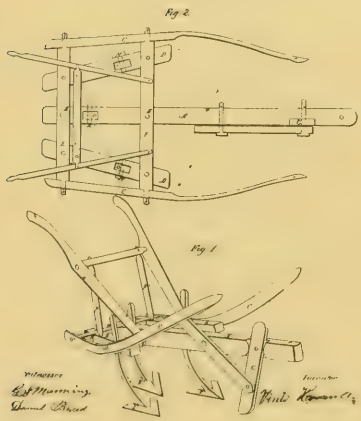
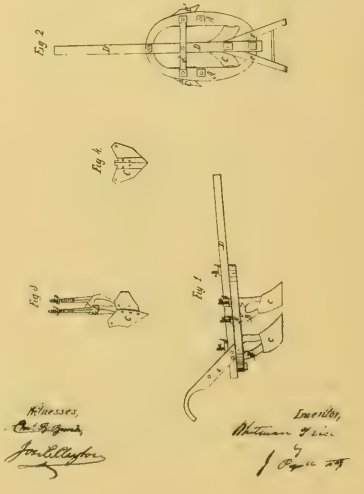
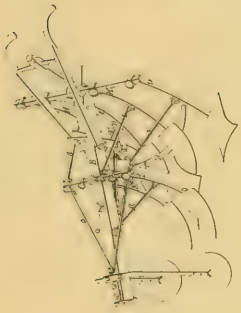


Fig. 1
Fig. 2
Witnesses:
Inventor:
Attorneys


V. Harwell.
Cultivator.
No. 28,576.
Patented Jan. 5, 1860.
Fig. 2
Fig. 1
Witnesses
Inventor


W. Pritz.
Cultivator.
No. 28,601.
Patented Jan. 6, 1860.
Fig. 2
Fig. 4
Fig. 3
Fig. 1
Witnesses,
Inventor,

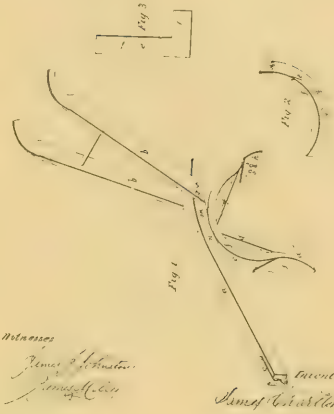
J. F. Cameron.
Cultivator.
No. 28,931. Patented June 26, 1860.



Witnesses
H. Hung
H. M. Dyer

Inventor
John F. Cameron
by his attorney
John B. Clark

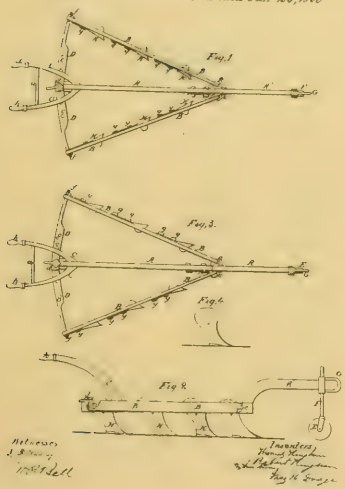
J. Charlton.
Cultivator.
No. 28,933. Patented June 26, 1860.



Witnesses
James P. Johnston.
James M. Allen

Inventor
James Charlton.

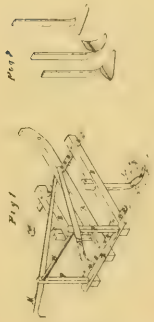
T. & R. Kinghorn
Cultivator
No. 28,970 Patented Jun 26, 1860



Witnesses
J. S. Gray
T. M. Dell

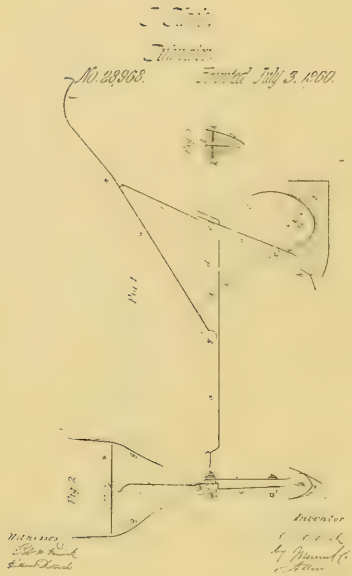
Inventors
Thomas Kinghorn
Robert Kinghorn
by H. Savage

J. M. Williams.
Cultivator
No. 28,929. Patented June 26, 1860

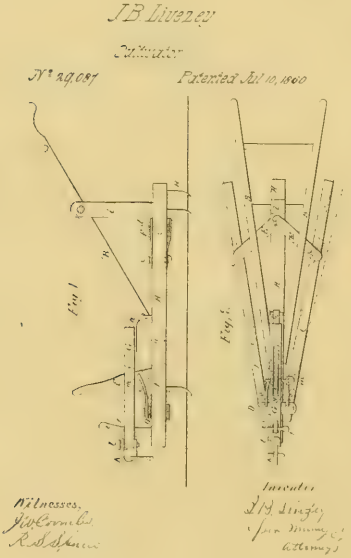


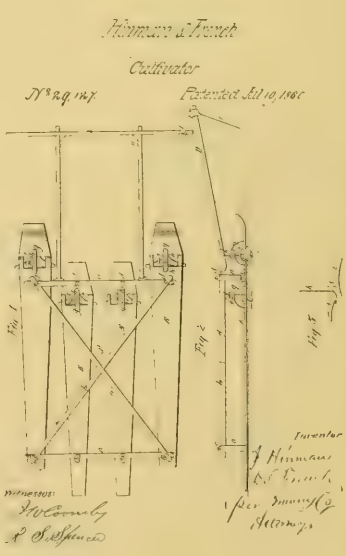
Inventor
John M. Williams

Witnesses
Wm. M. Ormsee
[illegible]


No. 28,968.
Patented July 3, 1860.
Fig. 1
Fig. 2
Witnesses
Inventor

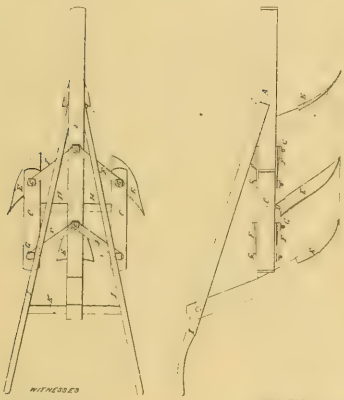
AGNEW & MORRISON
Cultivator
No. 29,043
Patented July 10, 1860
Fig. 2
Fig. 3
Fig. 1
WITNESSES:
INVENTORS:


J. B. Livezey
Cultivator
No. 29,087
Patented Jul. 10, 1860
Fig. 1
Fig. 2
Witnesses.
Inventor


Himmans & French
Cultivator
No. 29,117.
Patented Jul. 10, 1860
Fig. 1
Fig. 2
Fig. 3
Inventor
Witnesses:

E. Briggs.

No. 24,136 Patented Jul. 17, 1860



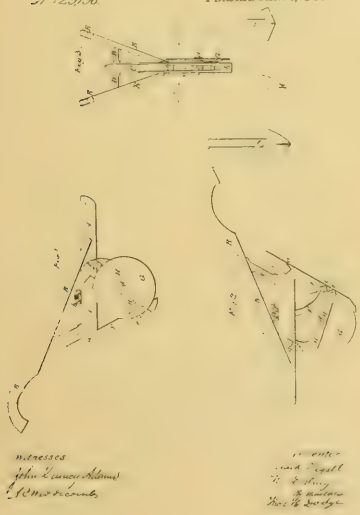
T. H. Dodge.

Patented Jul. 17, 1860

Rigell & Ivey.

Cultivator.

No. 29,196 Patented Jul. 17, 1860

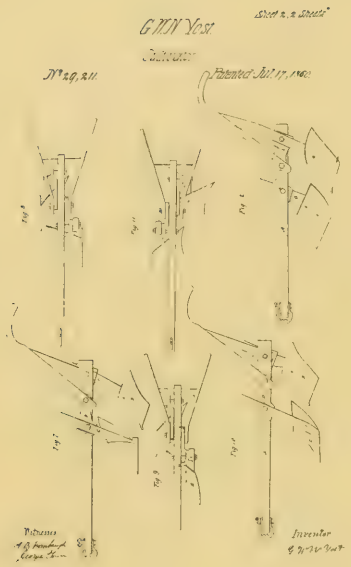


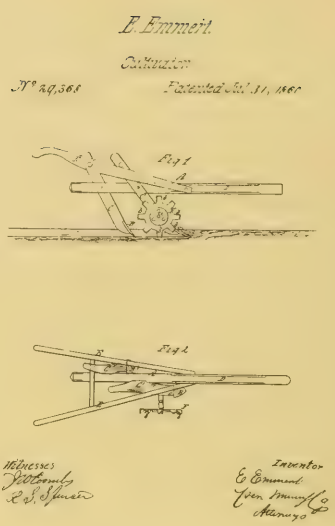
G. W. Ve.

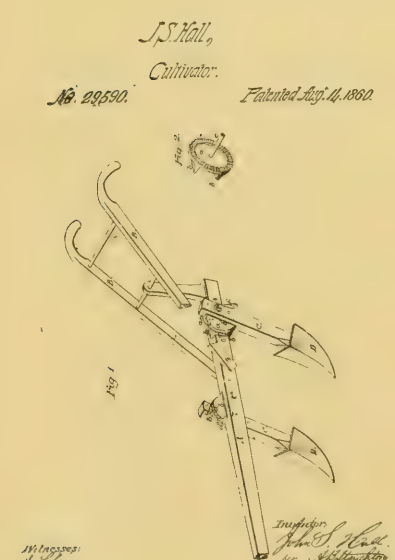
Sheet 1, 2 Sheets

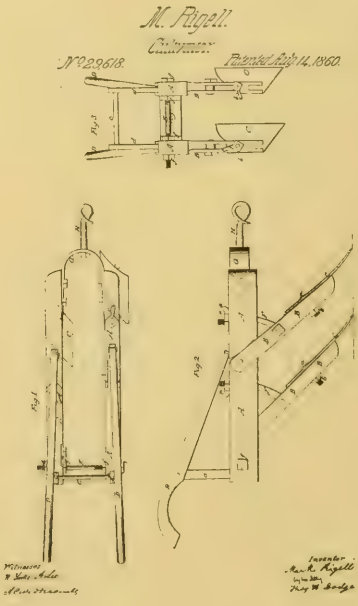
Cultivator.

No. 29,211. Patented Jul. 17, 1860


G. W. Yost.
Cultivator.
No. 29,211.
Patented Jul. 17, 1860.
Witnesses
Inventor
G. W. Yost


E. Emmert.
Cultivator.
No. 29,368
Patented Jul. 31, 1860.
Fig. 1
Fig. 2
Witnesses
Inventor
E. Emmert
Per Munn & Co.
Attorneys


J. S. Hall,
Cultivator.
No. 29,590.
Patented Aug. 11, 1860.
Fig. 1
Fig. 2
Witnesses
Inventor
John S. Hall
per H. Huntington
Attorney


M. Rigell.
Cultivator.
No. 29,618.
Patented Aug. 14, 1860.
Fig. 1
Fig. 2
Witnesses
Inventor
M. M. Rigell
by his Atty.
Ray W. Sedge

F. S. Huff

Cultivator

No. 29,797 Patented Aug. 28, 1860.

Fig. 1

Fig. 2

Witnesses

Chas. G. Page

Wm. H. Harrison

Inventor

Enoch S. Huff

Gilbert & Weston

Cultivator

No. 29,876. Patented Sept. 4, 1860.

Fig. 2

Fig. 1

Witnesses

Inventors

T. E. C. Brinkr. Sheet 2 Sheets

Cultivator

No. 30,119 Patented Oct. 23, 1860.

Fig. 2

Fig. 4

Fig. 1

Fig. 3

WITNESSES

INVENTOR

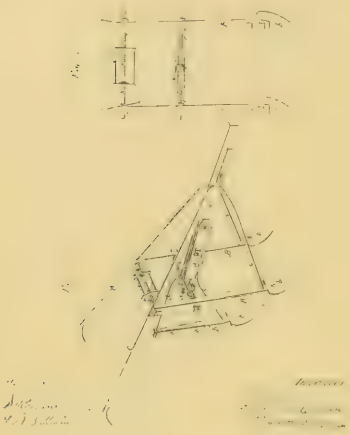
T. E. C. Brinkr. Sheet 2 Sheets

Cultivator

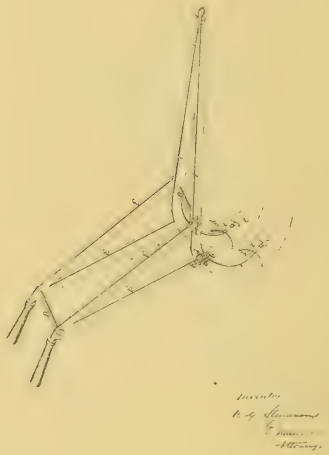
No. 30,119. Patented Oct. 23, 1860.

Fig. 5

No. 30,357. Patented Oct. 9, 1860.



M. G. Slemmons.
Cultivator.
No. 30,357. Patented Oct. 9, 1860.



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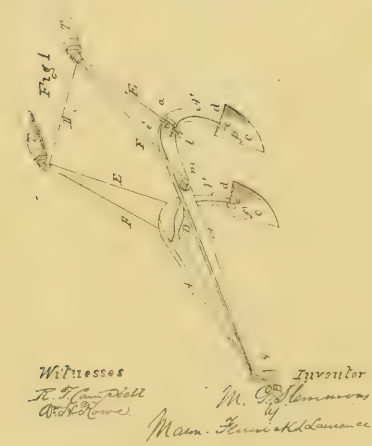
M. G. Slemmons.
Plow.
No. 35,7[illegible]. Reissued June 22, 1869.



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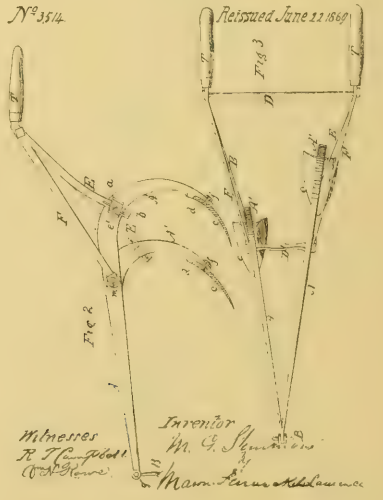
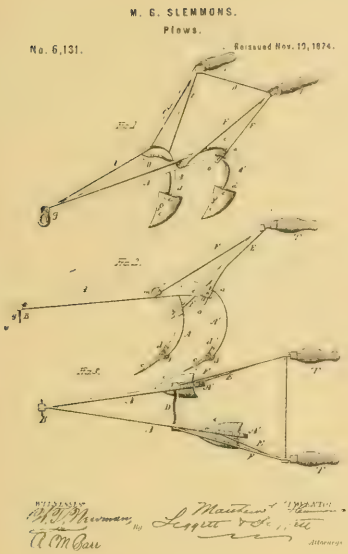
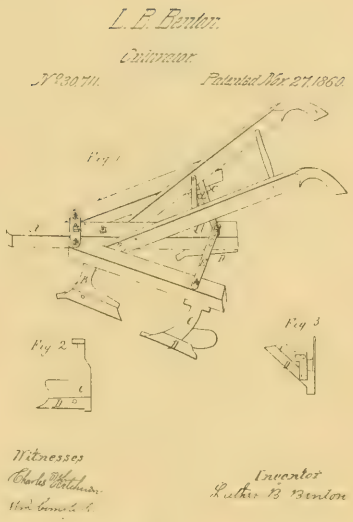
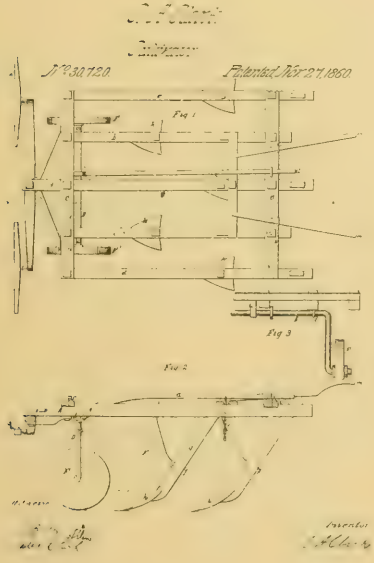
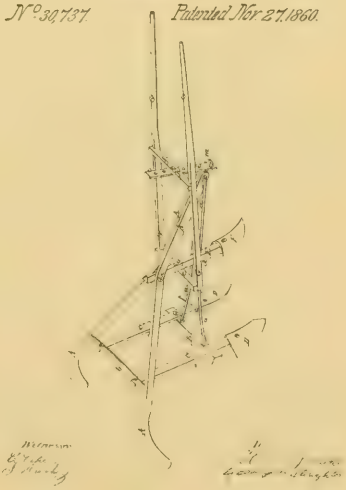
M. G. Slemmons.
Plow.
No. 3514. Reissued June 22, 1869.



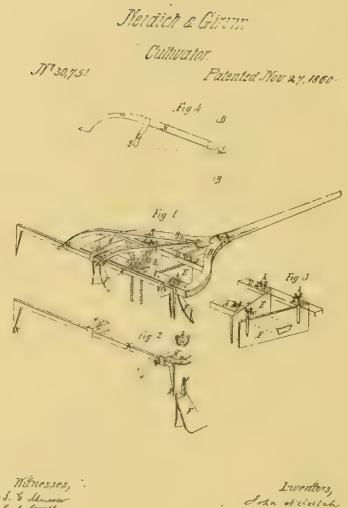

M. G. SLEMMONS.
Plows.
No. 6,131.
Reissued Nov. 19, 1874.

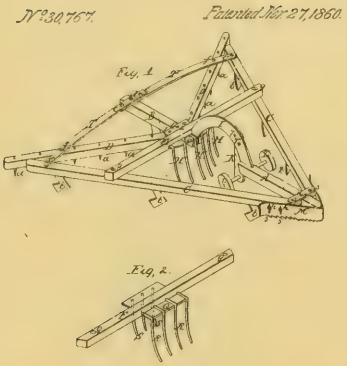

L. P. Benton.
Cultivator.
No. 30,711.
Patented Nov. 27, 1860.
Fig 1
Fig 2
Fig 3
Witnesses
Inventor

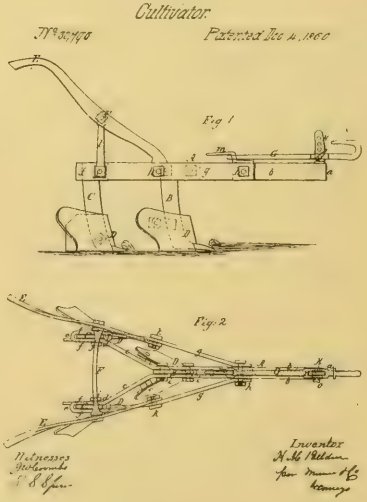

No. 30,720.
Patented Nov. 27, 1860.
Fig 1
Fig 3
Fig 2

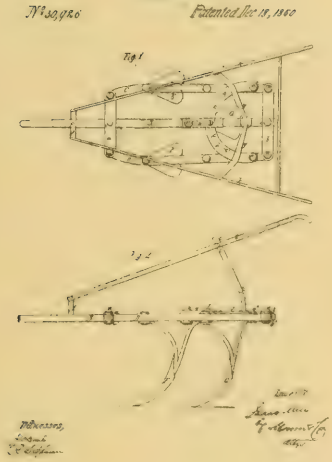

H. J. Lake.
Cultivator.
No. 30,737.
Patented Nov. 27, 1860.

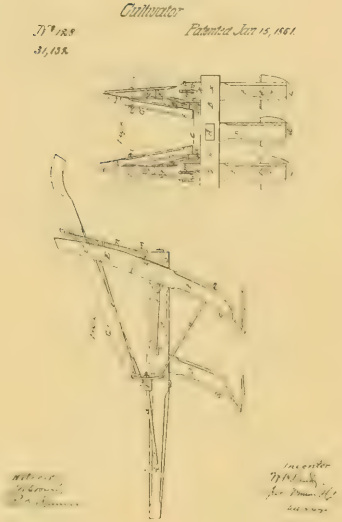
W. J. McCoy
Cultivator
No 30,722
Patented Nov 27, 1860
Witnesses,
Inventor,

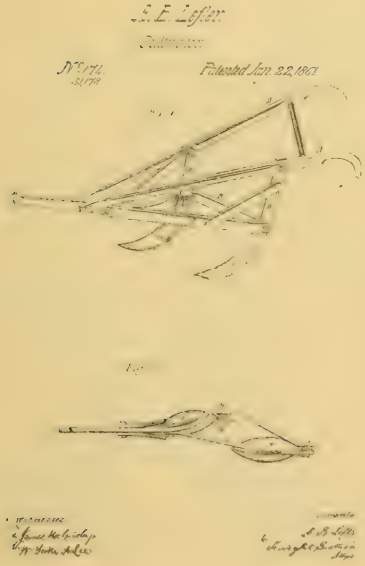

Cultivator
No 30,751
Patented Nov 27, 1860
Fig 4
Fig 1
Fig 2
Fig 3
Witnesses,
Inventors,

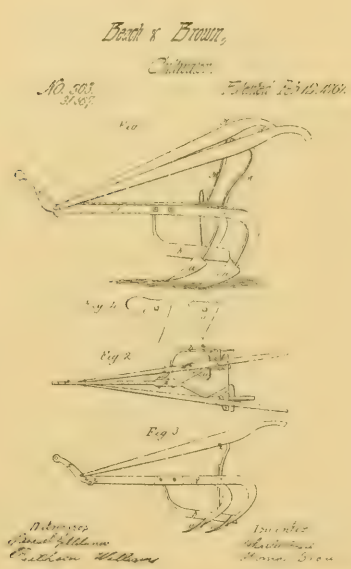

J. Slocum
Cultivator
No 30,767
Patented Nov 27, 1860
Fig. 1
Fig. 2
Witnesses
Inventor,

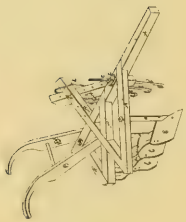

H. M. Belden
Cultivator
No 30,790
Patented Dec 4, 1860
Fig 1
Fig. 2
Witnesses
Inventor

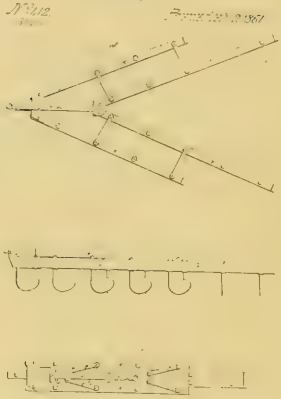

I. Miles's
Cultivator
No. 30,926
Patented Dec 18, 1860
Fig. 1
Fig. 2

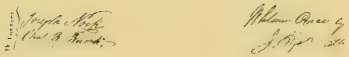

W.H. Smith
Cultivator
No. 31,132
Patented Jan 15, 1861

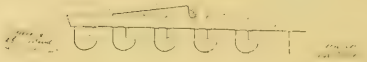

S. E. Lofter
Patented Jan 22, 1861

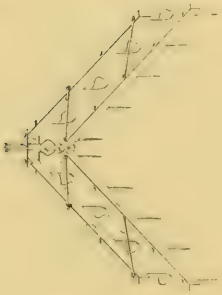

Beach & Brown,
Cultivator
No. 503
Patented Feb 12, 1861
Fig 1
Fig 2
Fig 3

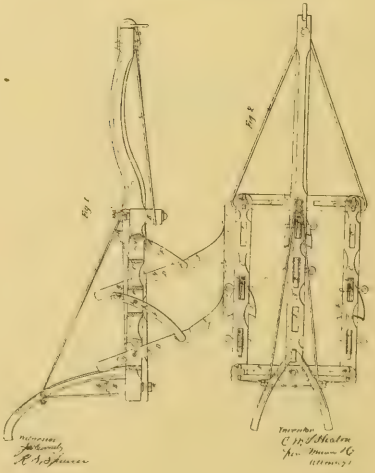

V. Frue.
Patented Feb. 12, 1861.


J. W. Taylor.
Cultivator.






J. W. Taylor.
Cultivator.

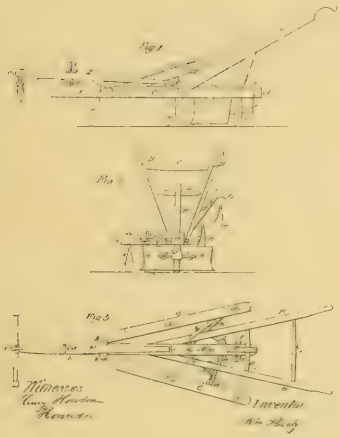

C. W. S. Heaton.
Cultivator.
Patented Mar. 12, 1861.

W. Strody

Cultivator

No. 677
31,652.

Patented Mar. 12, 1861.

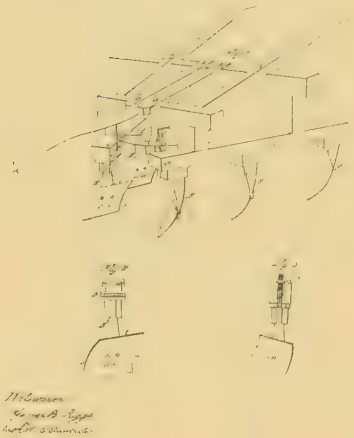


W. Fogg

Cultivator

No. 739
31,742.

Patented Mar. 19, 1861.

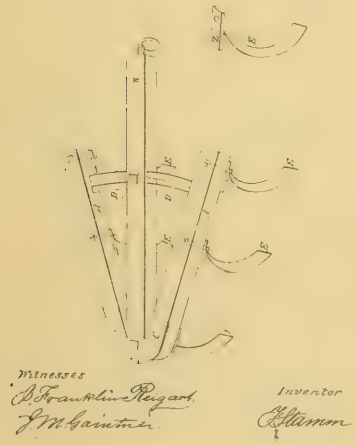


F. Stamm.

Cultivator.

No. 749
31,763

Patented Mar. 19, 1861.

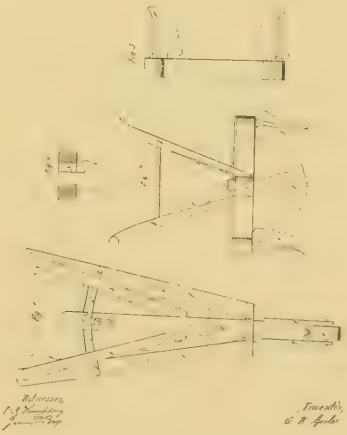


O. M. Gostee.

Cultivator

No. 830
31,884.

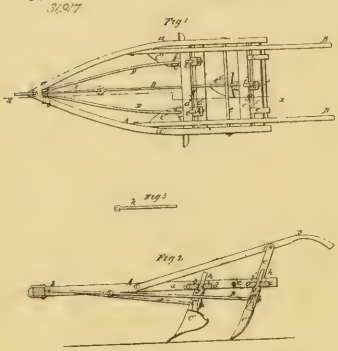
Patented Apr. 2, 1861.



W. F. Veber.

Cultivator.

No. 913. 31,917 Patented Apr. 2, 1861.



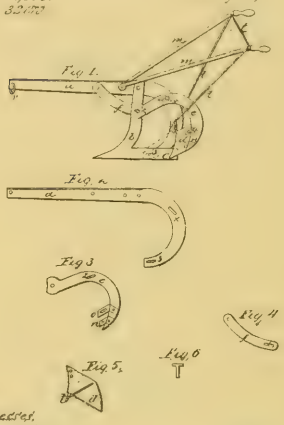
Witnesses:
[illegible]
[illegible]

Inventor
W. F. Veber
By Munn & Co
Attys

J. A. Sweet Jr.

Cultivator.

No. 1006. 32,072 Patented Apr. 9, 1861.



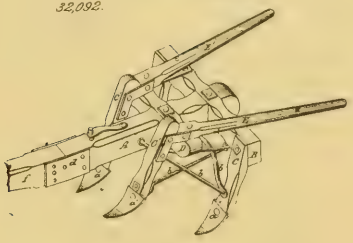
Witnesses.
James J. Johnston
George P. Stich

Inventor,
James A. Sweet Jr.

I. Stout.

Cultivator.

No. 1088. 32,092. Patented Apr. 16, 1861.



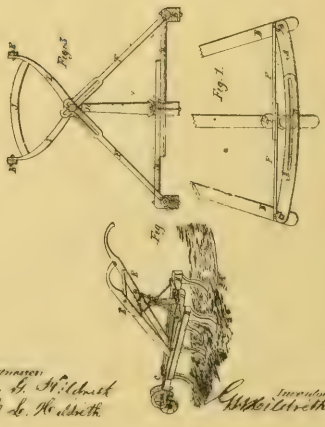
Witnesses
Augustus Pickles.
Charles Hathaway

Inventor
Isaac Stout
by his Attorney
W. H. Holdrum

G. W. Hildreth.

Cultivator.

No. 1,562. 32,366 Patented May 21, 1861.



Witnesses:
O. F. Hildreth
Wm. L. Hildreth

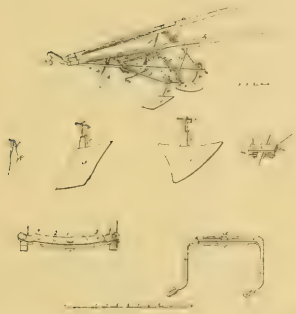
Inventor
G. W. Hildreth

Cain & Stefox.

Cultivator

No. 1,461. 32,461

Patented Jun 4, 1861



Witnesses

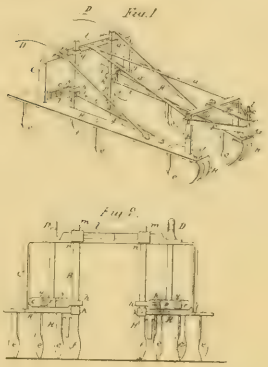
Inventor

J. Keezer

Cultivator

No. 1,553. 32,567

Patented Jun. 11, 1861



Witnesses.

Inventor

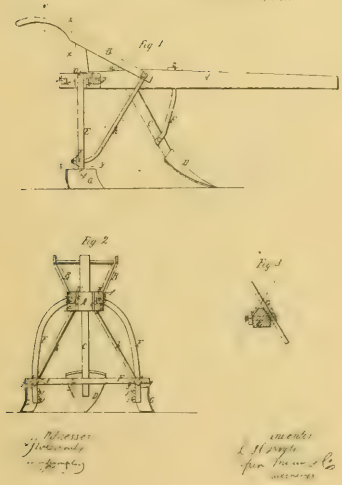
J. Keezer

L. H. Lytle.

Cultivator

No. 32,760

Patented Jul. 9, 1861



Witnesses

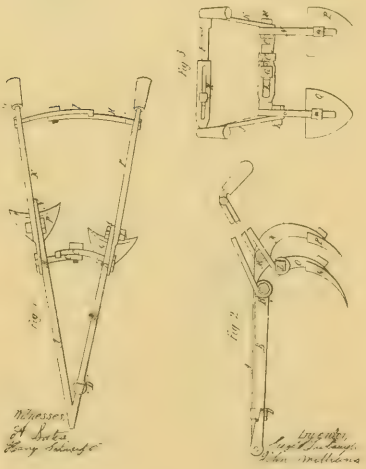
Inventor

Lawbaugh & Williams.

Cultivator

No. 2,040. 33,041.

Patented Aug. 13, 1861



Witnesses

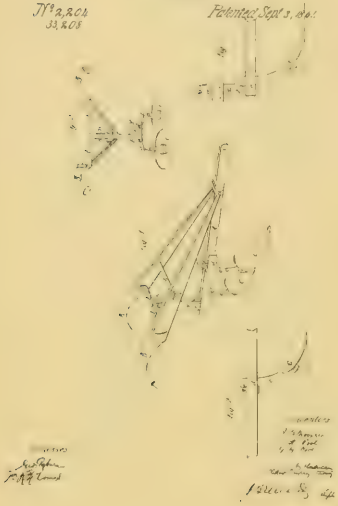
Inventors

J. B. Moorhead & J. R. & G. G. Pool.

Cultivator.

No. 2,201 33,203

Patented Sept. 3, 1861.

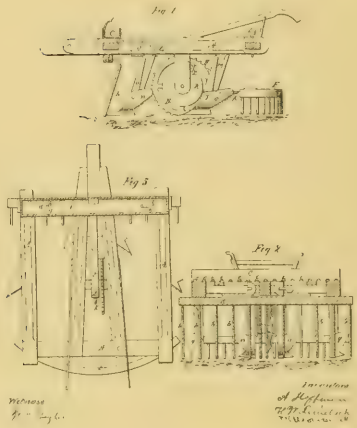


Hoffman & Lumsden.

Cultivator.

No. 2,936 33,936

Patented Nov. 19, 1861.



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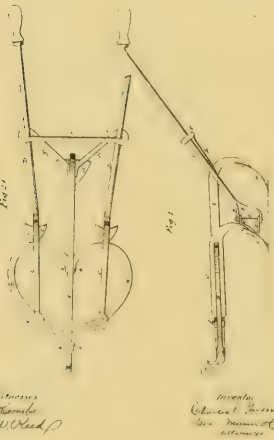
Patented Nov. 26, 1861.



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Cultivator.

No. 2,931 [illegible]

Patented Dec. 24, [illegible]

D. C. Gilliland.

Cultivator.

No. 32,981. 32,588

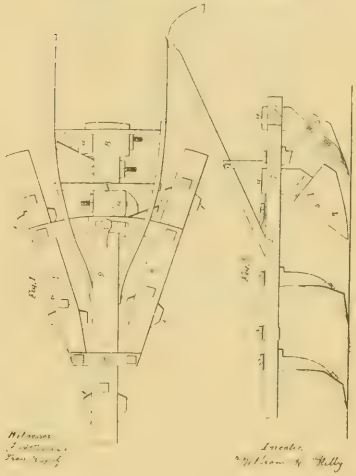
Patented Dec. 24, 1861.

W. H. Holly.

Cultivator.

No. 34,578

Patented Mar. 4, 1862.

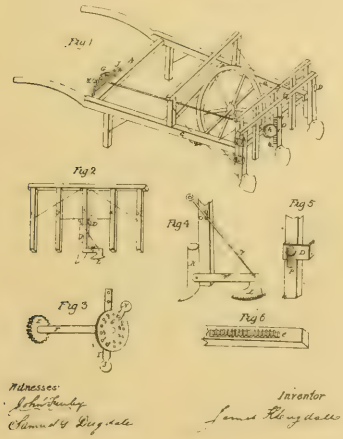


J. N. Dingdale.

Cultivator.

No. 35,223.

Patented May 13, 1862.

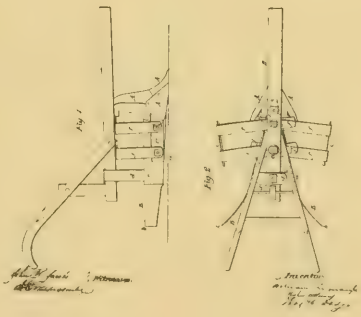


W. Lyman, Jr.

Cultivator.

No. 35,422.

Patented May 27, 1862.



F. S. Sanford

Cultivator

No. 35,805 Patented Jun 10 1862

Fig 1

Fig 2

Witnesses

Inventor

N. Van Horn

Cultivator

No. 36,961 Patented Oct 28, 1862.

Fig. 3

Fig 1

Fig 2

Fig 4

Witnesses

Inventor

N. B. Cooper

Cultivator,

No. 36,139. Patented Aug. 12, 1862.

Witnesses

A. A. Yeatman

L. Jones.

Inventor

N. B. Cooper

E. S. TICHENOR.

Cultivator.

No. 36,180 Patented Aug 12, 1862.

Witnesses

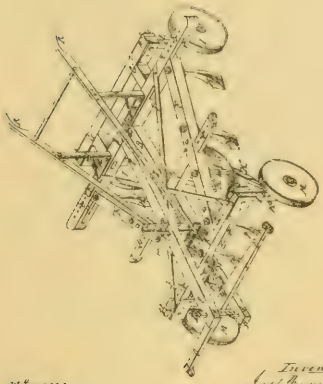
Inventor

Edwin S. Tichenor

J. Meyer.

Cultivator.

No. 36,909. Patented Nov. 11. 1862.



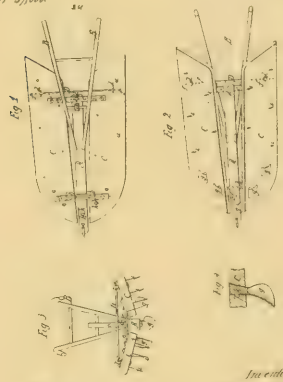
Witnesses,
Henry H. Rice
John Dodge

Inventor
Joseph Meyer
per Wm. A. Houghton

W. Young.

Cultivator.

No. 37,005. Patented Nov. 25, 1862.



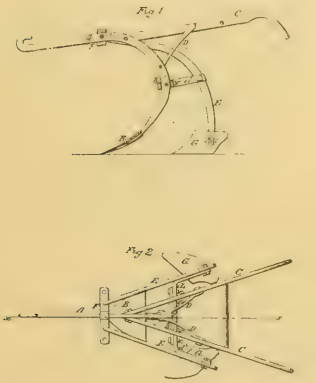
Witnesses,
R. H. Elgood.
Cathanuel Cottringer

Inventor,
William Young
by J. Pierson Nes.
Atty

L. H. Doyle.

Cultivator.

No. 37,049 Patented Dec. 9, 1862



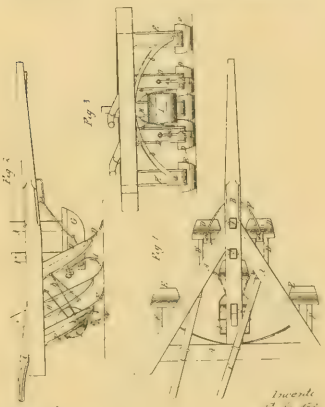
Witnesses
H. W. Crowell
G. W. Reed

Inventor
L. H. Doyle
per Manning & C.

D. C. Bliss.

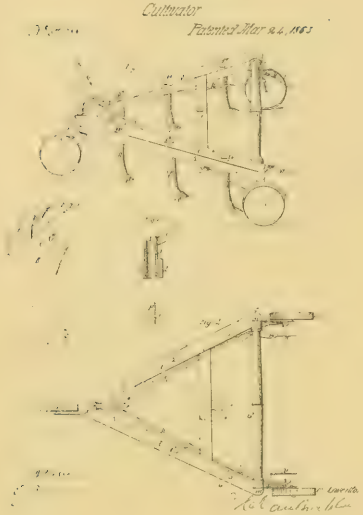
Cultivator

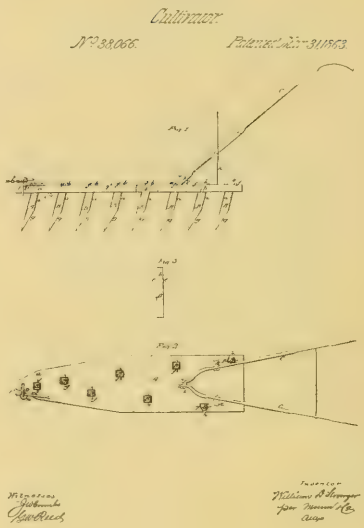
No. 37,[illegible] Patented Dec. 16, 1862, No. 5



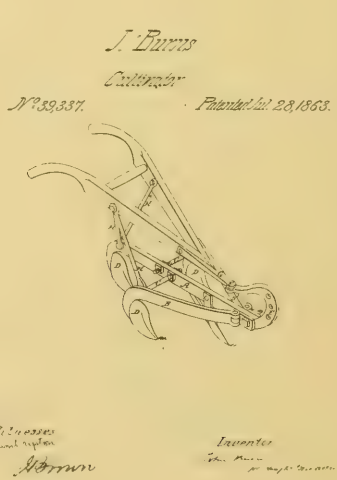
Witnesses
[illegible]
John F. [illegible]

Inventor
D. C. Bliss
by his Attorney
Thos. H. [illegible]


P. C. Van Brocklin.
Cultivator
Patented Mar 24, 1863


W. D. Stemper.
Cultivator
No 38,066.
Patented Apr 31 1863.

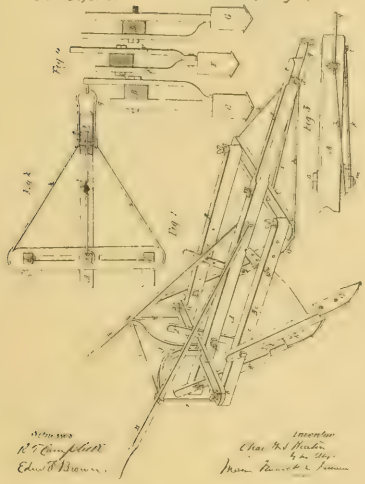
I. B. Moore.
Patented Apr 28 1863


J. Burns
Cultivator
No 39,337.
Patented Aug 28, 1863.

C. W. S. Heater.

Cultivator.

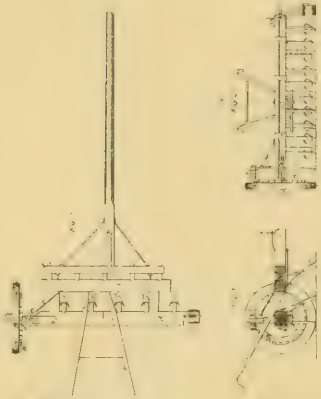
No. 39,528. Patented Aug. 11, 1863.



C. F. Erickson.

Cultivator.

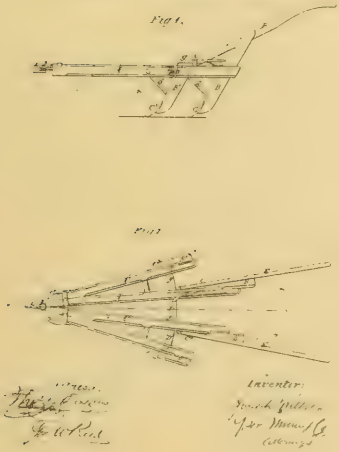
No. 34,784. Patented Sept. 1, 1863.



J. Wilhelm.

Cultivator.

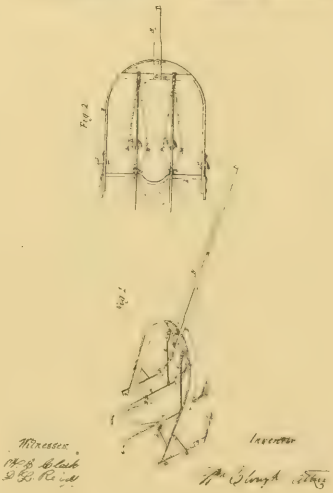
No. 36,[illegible] Patented Feb. 9, 1863.

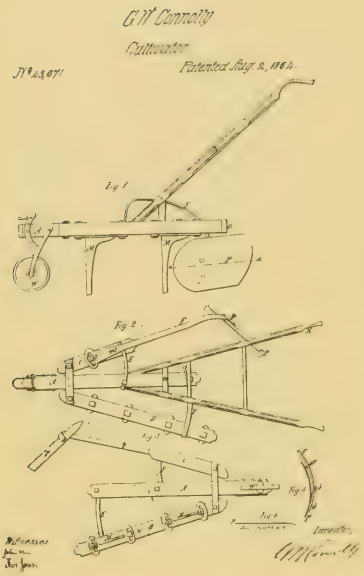


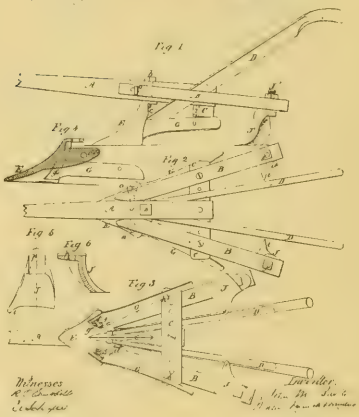
S. A. Tombs.

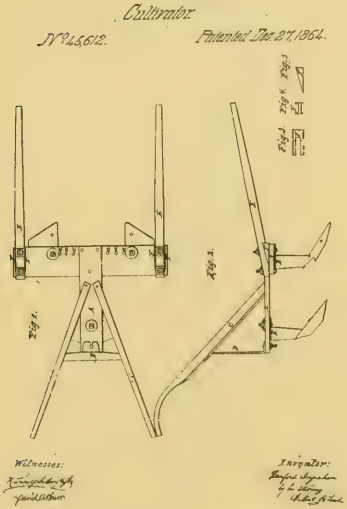
Cultivator.

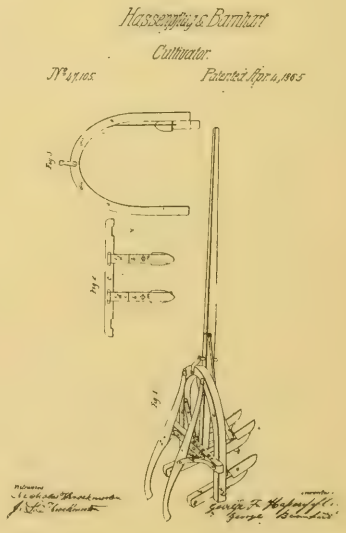
No. 42,737 Patented May [illegible], 1864.




G. W. Connolly
Cultivator
No. 43,071
Patented July 12, 1864.
Fig. 1
Fig. 2
Witnesses
Inventor


J. M. Burke.
Cultivator.
No. 46,019.
Patented Nov 15, 1864.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 6
Witnesses
Inventor

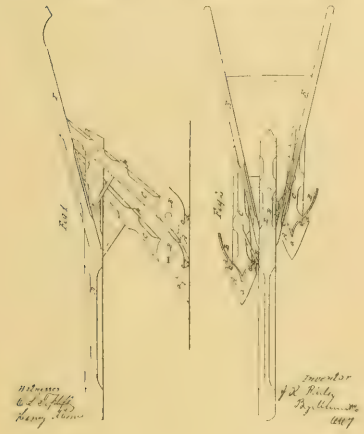

H. Ingraham.
Cultivator.
No. 45,612.
Patented Dec 27, 1864.
Fig. 1
Fig. 2
Fig. 3
Witnesses:
Inventor:


Hassenpflug & Barnhart
Cultivator.
No. 47,105
Patented Apr 11, 1865
Fig. 1
Witnesses
Inventors

J. A. Finley

Cultivator.

No. [illegible] Patented May [illegible]



Witnesses
[illegible]

Inventor
J. A. Finley
By [illegible]
Atty

C. Ford

Cultivator.

No. 47,536 Patented May 2, 1865

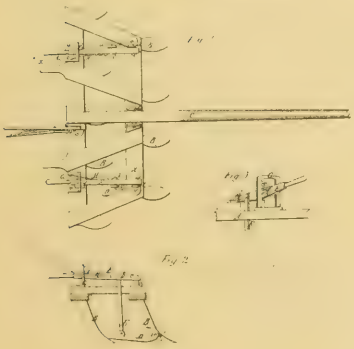
Witnesses
Hubbard Hogg
[illegible]

Inventor
Chas. L. Ford
Troy

P. S. Carrier.

Cultivator.

No. 47,618. Patented May 9, 1865.



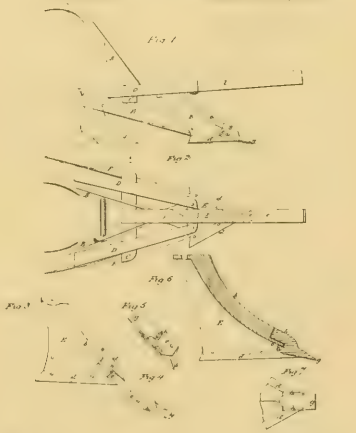
Witnesses:
[illegible]

Inventor:
P. S. Carrier
By [illegible]
Atty.

H. M. Teasdale.

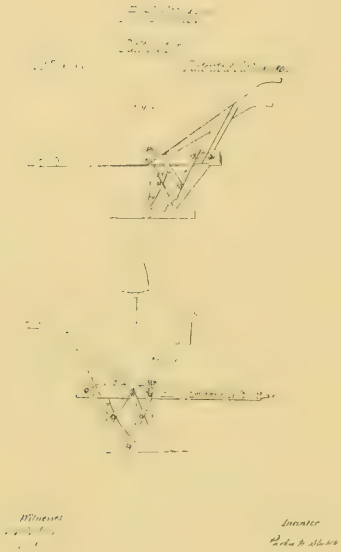
Cultivator.

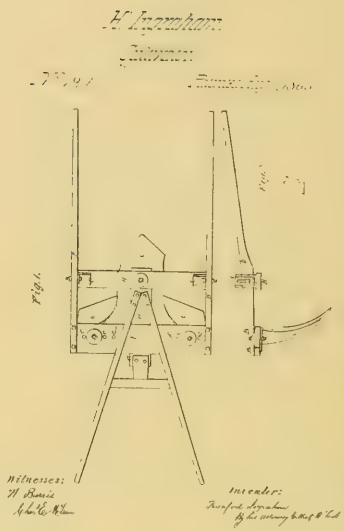
No. [illegible] Patented Oct 20 1865

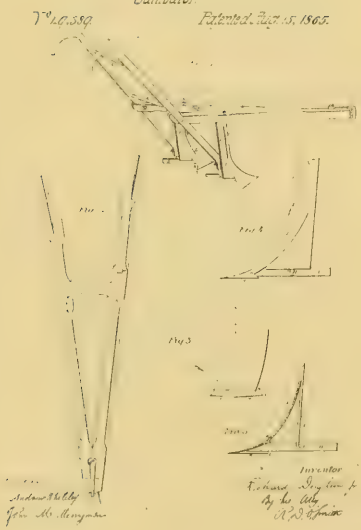


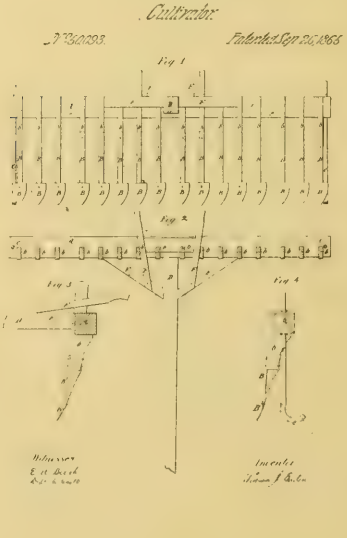
Witnesses
[illegible]

Inventor
H. M. Teasdale
[illegible]

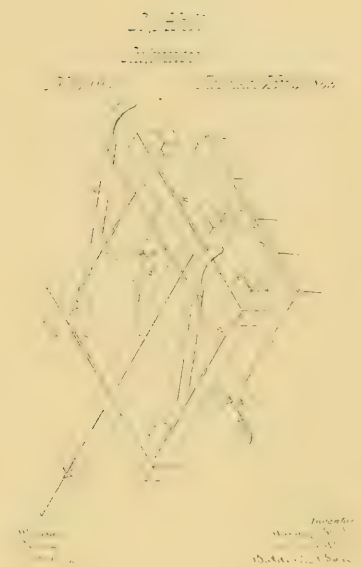


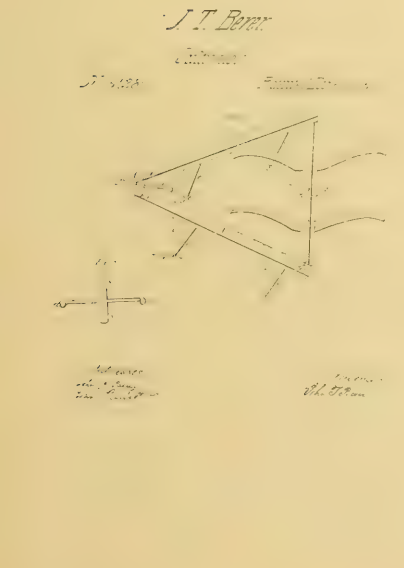

H. Ingraham.
Witnesses:
Inventor:

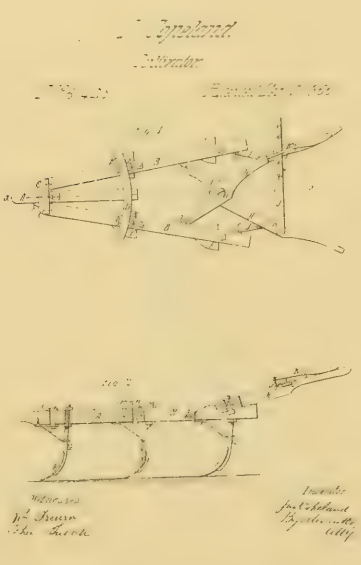

R. Deighton, Jr.
Cultivator.
Patented Oct. 15, 1865.
Inventor

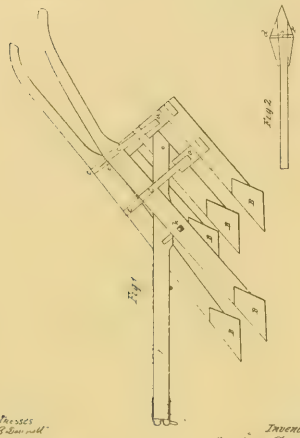

W. J. Burton.
Cultivator.
Patented Sep. 26, 1865.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses
Inventor

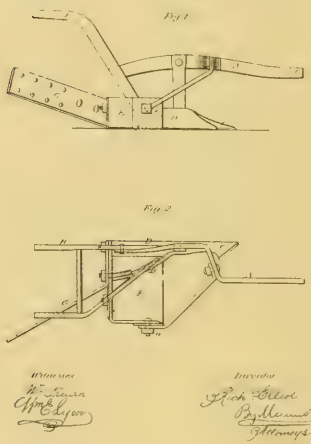
Thayer & McClelland.
Patented Oct. 1, 1805

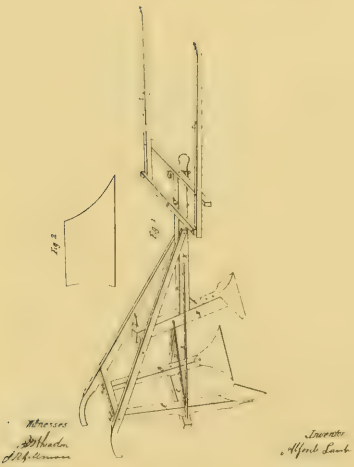


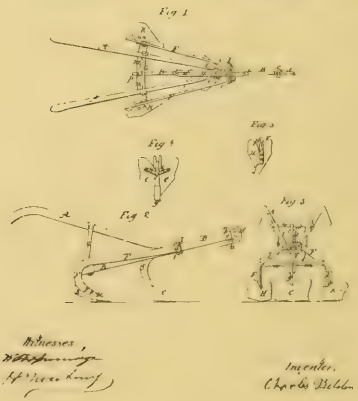

J. T. Beyer.




Cultivator
Patented Dec 19 1866.
Fig 1
Fig 2
Witnesses
Inventor
Daniel Durrett


R. Elliot.
Cultivator.
Patented Nov. 2, 1866.
Fig 1
Fig 2
Witnesses
Inventor
Attorneys

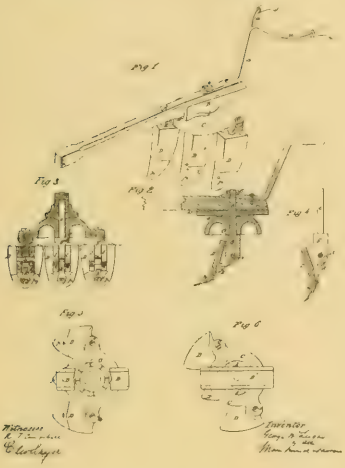

A. Lamb.
Cultivator.
Patented Feb 6, 1866.
Fig 1
Fig 2
Witnesses
Inventor
Alfonso Lamb


Cultivator
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Witnesses
Inventor.
Charles Webb

G. W. Beigler.

Cultivator.

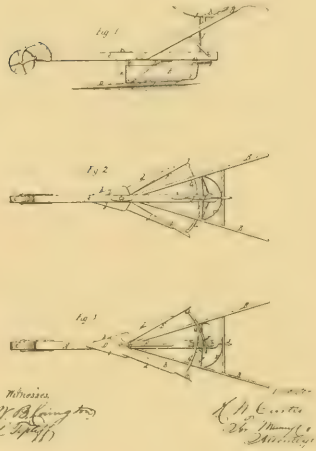
No. 53,212. Patented Mar. 13, 1866.



H. W. Curtis.

Cultivator.

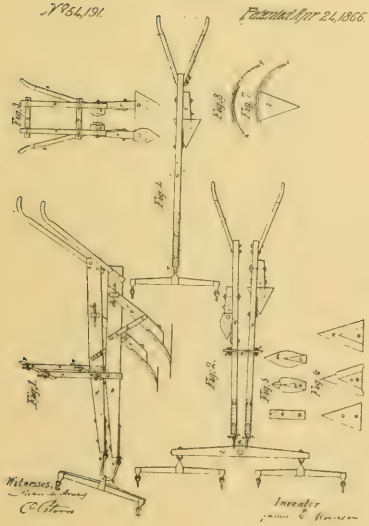
No. 54,122. Patented Apr. 24, 1866.



J. E. Morrison.

Cultivator.

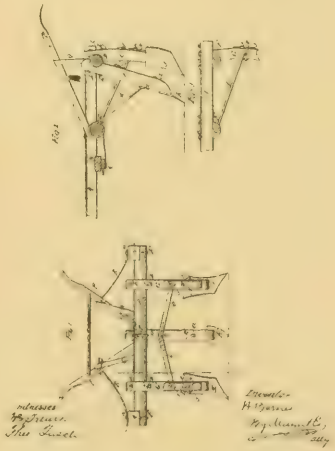
No. 54,191. Patented Apr. 24, 1866.



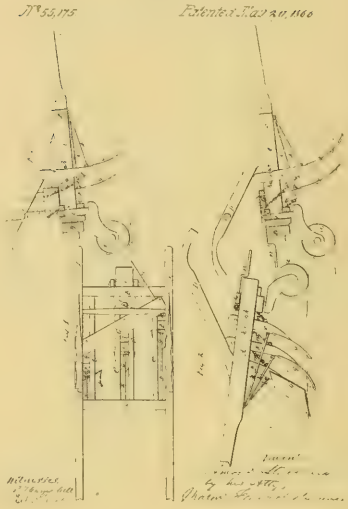
H. Barnes.

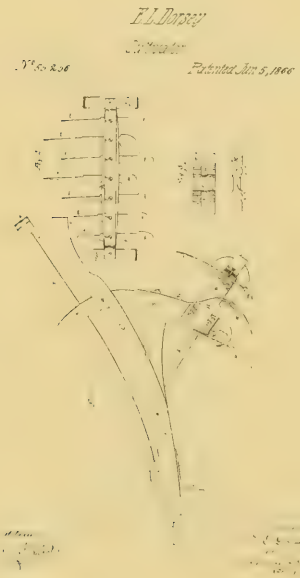
Cultivator.

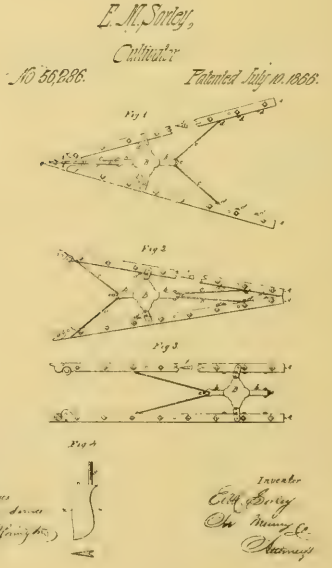
No. 54,280. Patented May 1, 1866.

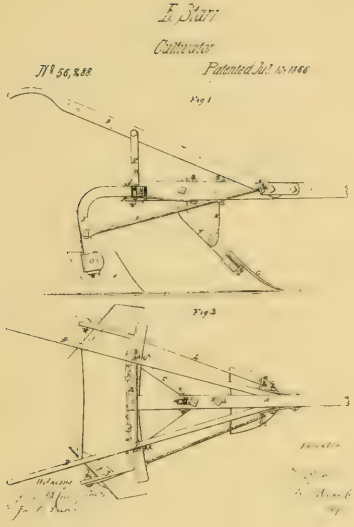


T. Fish.
Cultivator.
No. 50,315.
Patented Sept. 1, 1866


A. D. Stocking
Cultivator.
No. 55,175
Patented June 26, 1866


E. L. Dorsey
Cultivator
No. 55,296
Patented June 5, 1866


E. M. Sorley,
Cultivator
No. 56,986.
Patented July 10, 1866.
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses
Inventor


E. Stutt
Cultivator
No 56,288
Patented Jul 10, 1866
Fig 1
Fig 3

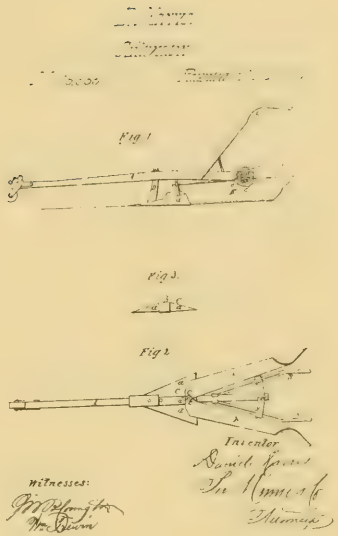
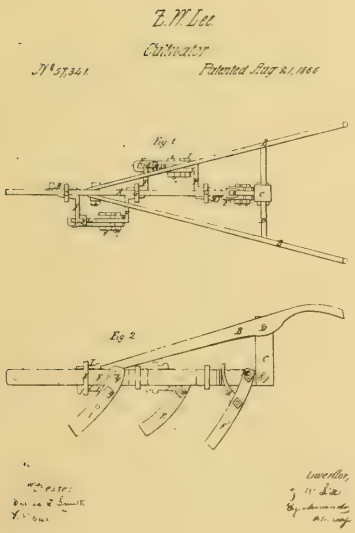
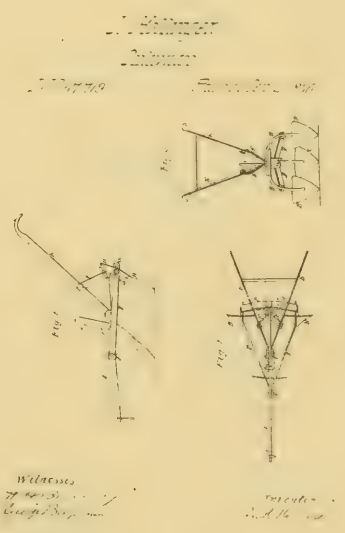


Fig 1
Fig 3
Fig 2
Inventor
Witnesses:

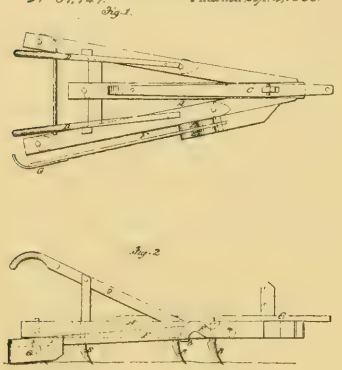

Z. W. Lee
Cultivator
No 57,341
Patented Aug 21, 1866
Fig 1
Fig 2
Witnesses:
Inventor,


Witnesses

T. B. McConaughey.

Cultivator.

No. 57,747. Patented Sept. 4, 1866.



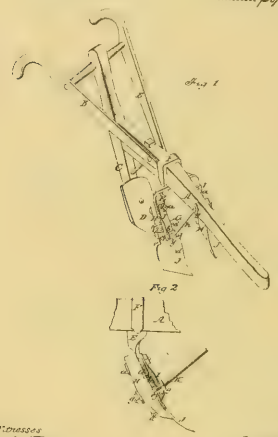
Witnesses

Inventor.

A. F. Stillwell,

Cultivator.

No. 57,792. Patented Sept. 4, 1866.



Witnesses

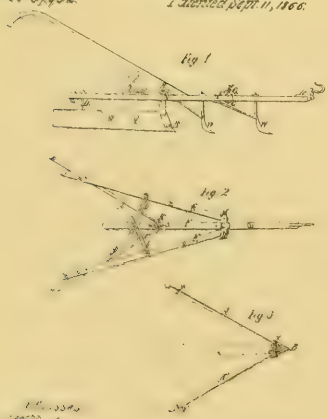
Inventor

A. F. Stillwell.

W. Nichols

Cultivator

No. 57,902. Patented Sept. 11, 1866.



Witnesses

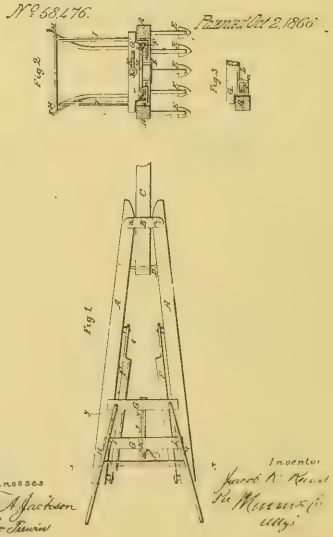
Inventor,

William D. Nichols.

J. H. Reiner.

Cultivator.

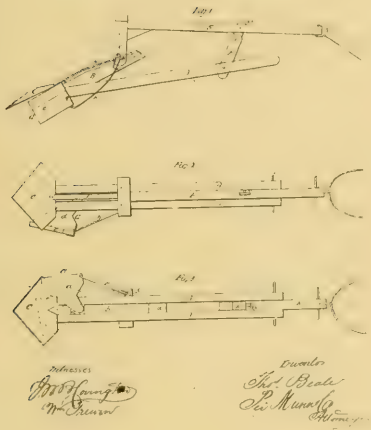
No. 58,476. Patented Oct. 2, 1866.



Witnesses

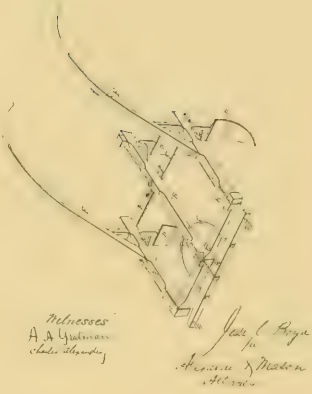
Inventor

T. Earle,
Cultivator.
No. 58578. Patented Oct. 9 1866.



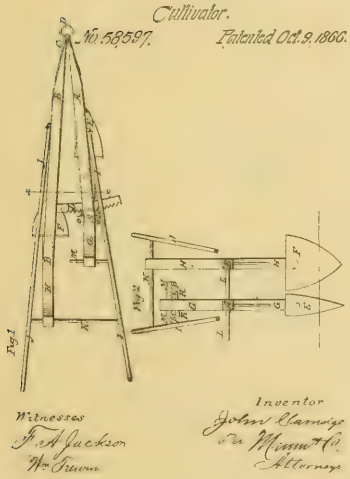
Witnesses
Inventor

J. C. Boyd,
Cultivator.
No. 58581. Patented Oct. 9. 1866.



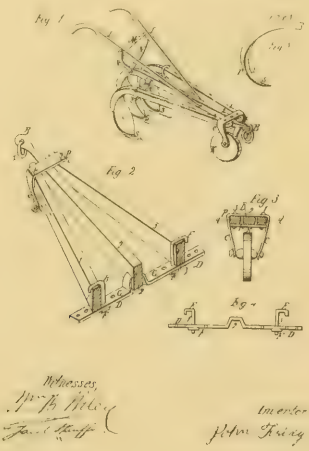
Witnesses
A. A. Yeatman
Inventor
Attorneys

J. Clarridge,
Cultivator.
No. 58597. Patented Oct. 9. 1866.



Witnesses
F. A. Jackson
Inventor
John Clarridge
Attorneys

J. Frey,
Cultivator
No. 58806 Patented Oct. 16. 1866.

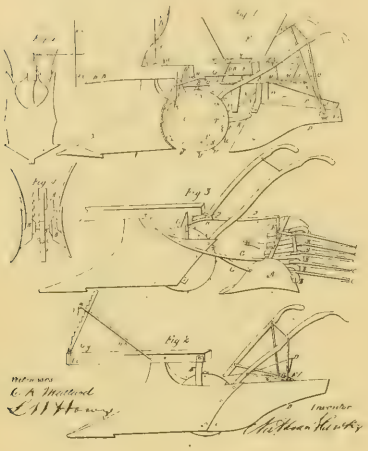


Witnesses
Inventor
John Frey

N. Hawkes.

Cultivator.

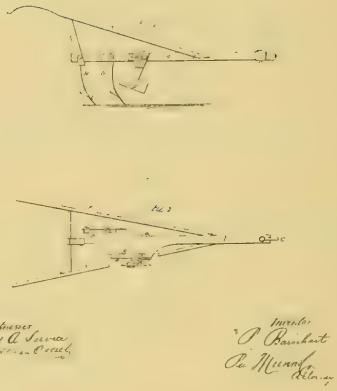
No. 58,859 Patented Oct. 16, 1866



F. Bambart.

Cultivator.

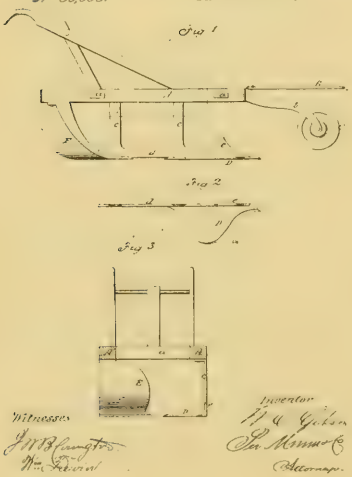
No. 58,873. Patented Oct. 23, 1866.



W. O. Gibson.

Cultivator.

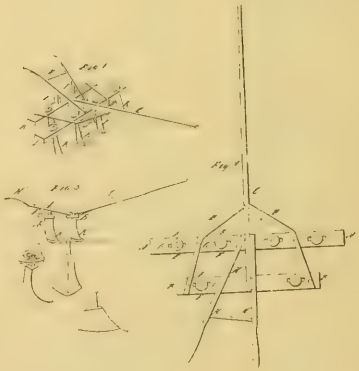
No. 59,003. Patented Oct. 23, 1866.



J. B. Herr.

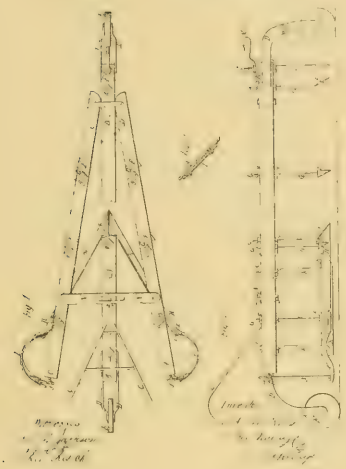
Cultivator.

No. 59,013. Patented Oct. 23, 1866.



A. W. Ross.

Patented Oct 30, 1866.

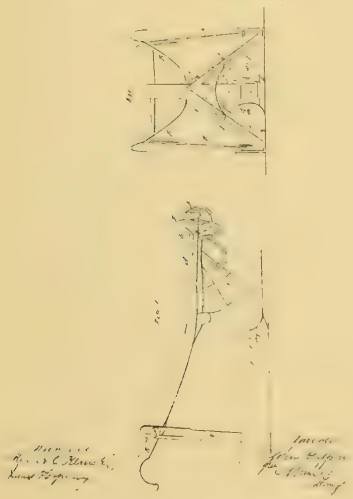


J. J. Caswell.

No. 59,353 Patented Nov 6, 1866

J. Lyford

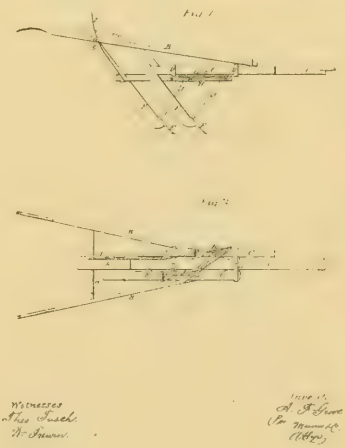
No. 59,581 Patented Nov 13, 1866



A. F. Grove.

Cultivator

No. 59,692. Patented Nov 13, 1866.



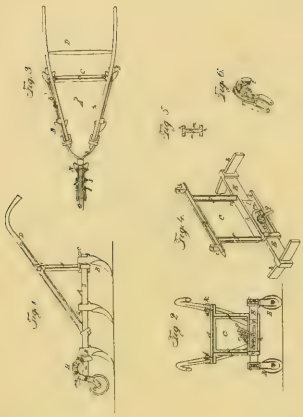
Witnesses
Thos Fusch.
H. Sumner.

Inventor
A. F. Grove
(Per Munn & Co.
Attys.)

J. C. RICH.

Cultivator.

No. 60,422. Patented Dec. 11. 1866.



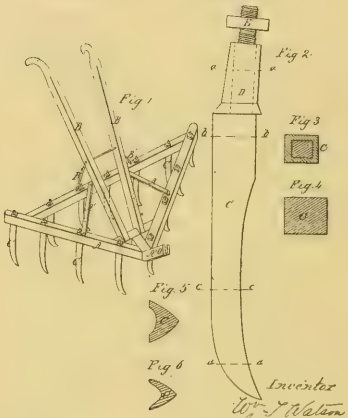
Witnesses:

Inventor:

W. T. Watson.

Cultivator.

No. 60,449 Patented Dec. 11, 1866.



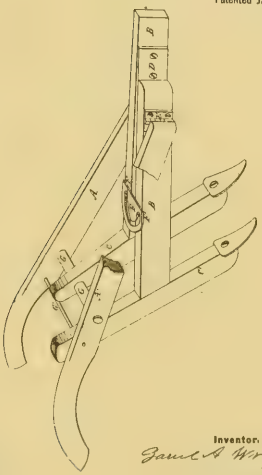
Witnesses:

Inventor:

S. A. WRAY.

Cultivator.

No. 60,982. Patented Jan. 1, 1867.



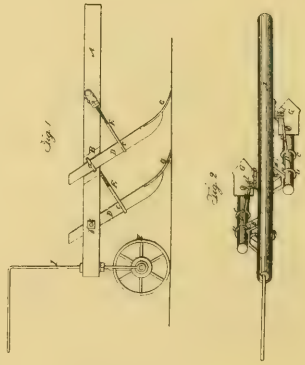
Witnesses:

Inventor:

S. M. WHITNEY.

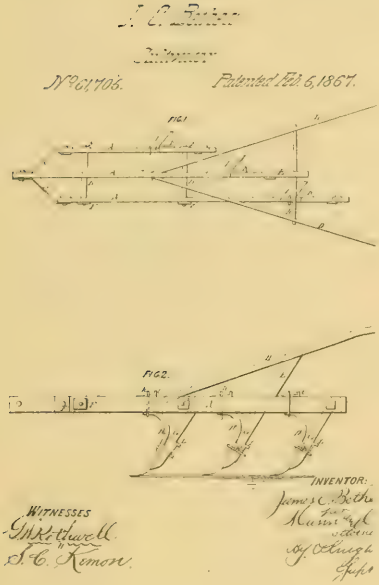
Cultivator.

No. 61,294. Patented Jan. 15, 1867.



Witnesses:

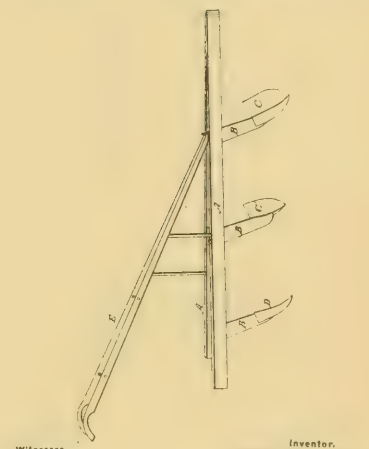
Inventor:

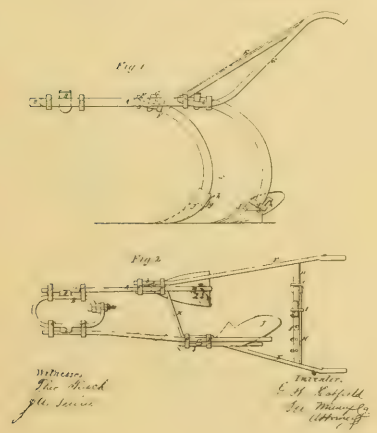


RHINEHART & FELKER.

Cultivator.

No. 61,760. Patented Feb. 5, 1867.

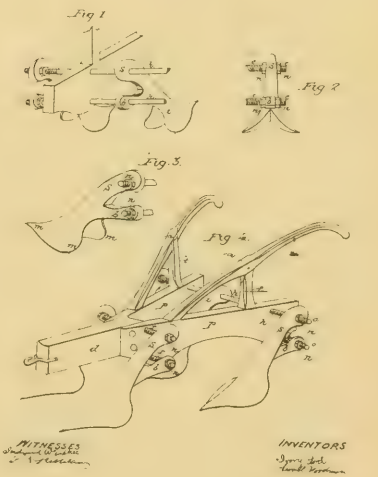




LORD & WOODMAN

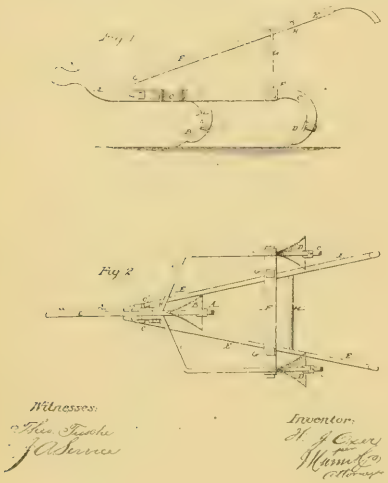
Cultivator

No 61,943 Patented Feb 12, 1867



CULTIVATORS.

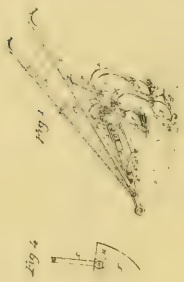
W. J. OXER
Cultivator
No. 62,066 Patented Feb. 12, 1867



Witnesses:
Thos. Tuohe
J. O. Serre

Inventor:
W. J. Oxer
per
Munn & Co.
Attorneys

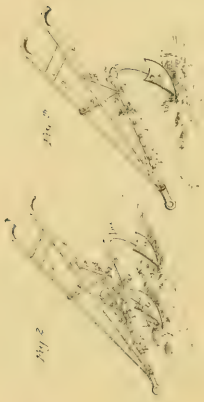
J. POTTS.
Cultivator
No. 62,223 2 Sheets—Sheet 1
Patented Feb. 19, 1867



Witnesses:
Clement Rigby
John C. Parker

Inventor:
James Potts

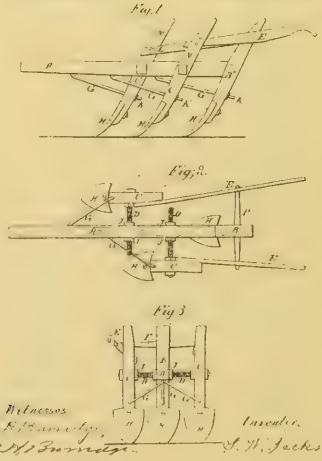
J. POTTS.
Cultivator
No. 62,223 2 Sheets—Sheet 2
Patented Feb. 19, 1867



Witnesses
Clement Rigby
John C. Parker

Inventor
James Potts

S. W. Jackson
Cultivator
No. 62,321 Patented Feb. 19, 1867



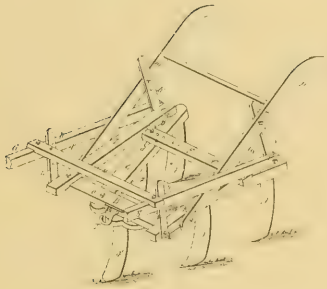
Witnesses
J. H. Lundy
W. H. Burridge

Inventor
S. W. Jackson

L. G. TUTTLE.

Cultivator.

No 62,302. Patented Feb. 19, 1867.



Witnesses:
E H Baldwin
A Lehigerdel

Inventor:
Lewis G Tuttle

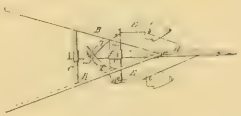
J. Kinney's

Cultivator.

No. 62,320. Patented Feb. 26. 1867.

Fig 1

Fig 2



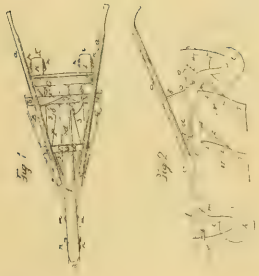
Witnesses.
A A Gastman
F Lehmann

Inventor
C S Gunnip
per R Z Chandler
Atty

J. HASKELL.

Cultivator.

No. 62,329 Patented Feb. 26, 1867.



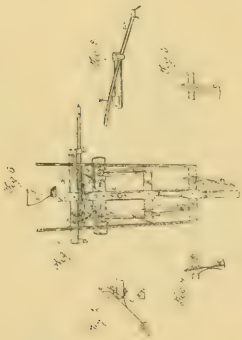
Witnesses
Barnard P Shubey
Henry C Hunter

Inventor
Jonas Haskell
by his atty
Wm Henry Clifford

D. R. ALLEN.

Cultivator

No 62,389. Patented Feb. 26, 1867.



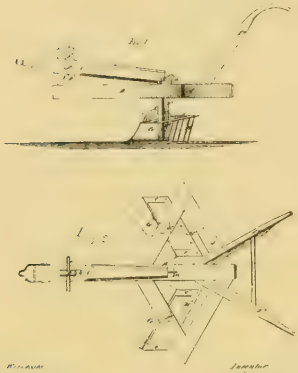
Witnesses
William [illegible]
Henry C Hunter

Inventor
Daniel R Allen

W. Lindsay.

Cultivator.

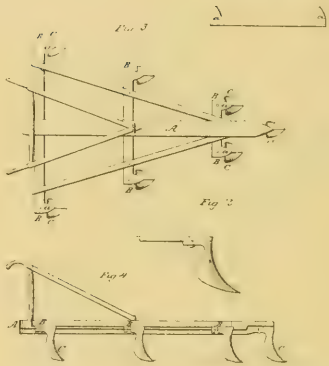
No. 62,336. Patented Feb. 26, 1867.



J. Wilcox.

Cultivator.

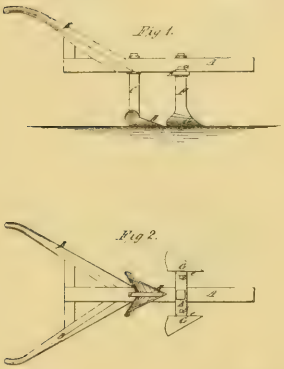
No. 62,405. Patented Feb. 26, 1867.



A. S. Farwell.

Cultivator.

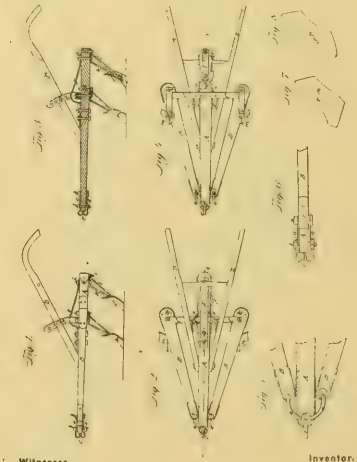
No. 62,808. Patented Mar. 12, 1867.



L. REPP.

Cultivator.

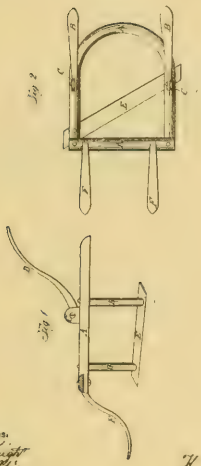
No. 62,971. Patented Mar. 19, 1867.



T. B. ROGERS.

Cultivator.

No. 63,430. Patented Apr. 2. 1867



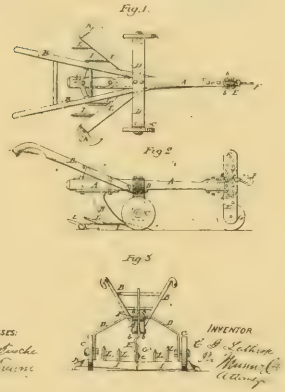
Witnesses.

Inventor.

C. G. Lathrop.

Cultivator

No. 63,534. Patented Apr. 2, 1867.



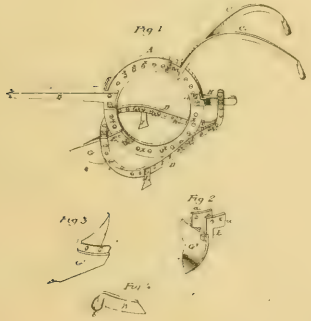
Witnesses:

Inventor

R. Cantelon.

Cultivator

No. 63,610. Patented Apr. 9, 1867.



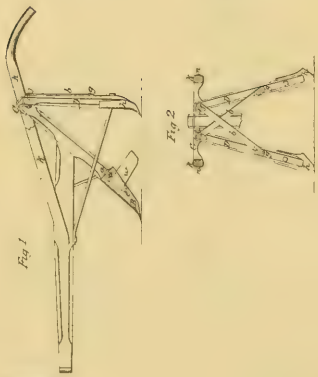
Witnesses:

Inventor:

A. Gordon,

Cultivator.

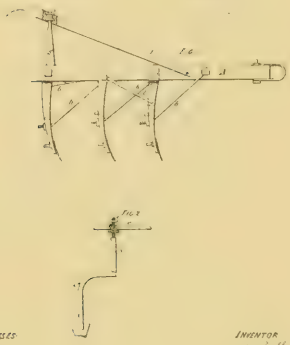
No. 63,717. Patented Apr. 9. 1867.



Witnesses

Inventor

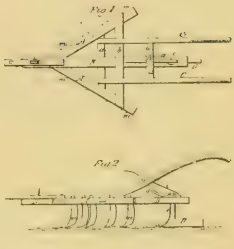
W. M. Ball,
Cultivator.
No. 63,800. Patented Apr. 16, 1867.



Witnesses
F. Lehmann
A. H. Spalding

Inventor
Wm. M. Ball
per
J. H. Alexander
Attorney.

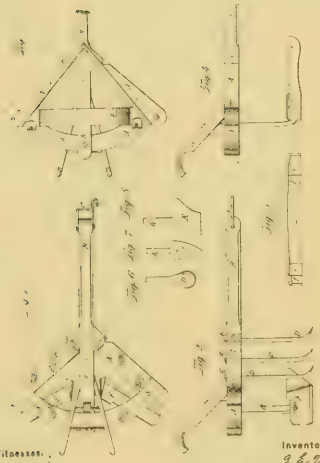
O. ETNIER.
Cultivator
No. 43,096. Patented Apr. 23, 1864



Witnesses
Geo. Roche
Wm. Brown

Inventor
O. Etnier
per Munn & Co
Attys

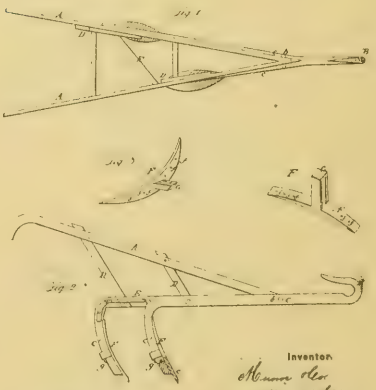
J. E. TATE.
Cultivator.
No. 64,165. Patented Apr. 23, 1867.



Witnesses.
Thos. Finch
J. Wood

Inventor.
J. E. Tate
per Munn & Co
Attys

A. P. ROUTT.
Cultivator.
No. 64,370. Patented Apr. 30, 1867.



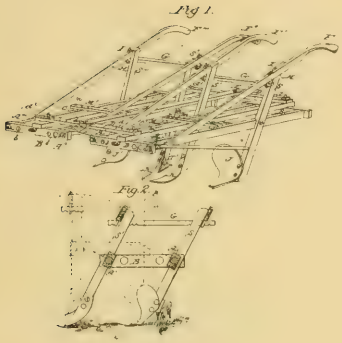
Witnesses.
Chas. D. Smith
C. R. Ellsworth

Inventor.
Munn & Co
Attorneys for
Lucelle P. Routt
per O. Knight
Supt.

A. H. KING.

Cultivator

No. 64,429 Patented May 7, 1867



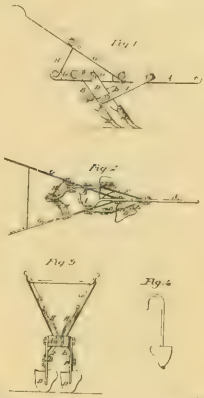
Witnesses

Inventor

J. Hollinger

Cultivator

No. 64,368. Patented May 21 1867



WITNESSES

Frank Allen

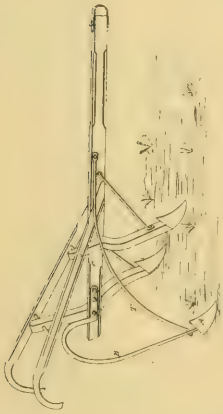
INVENTOR

Saml Hollinger

A. WILCOX.

Cultivator.

No. 64,927. Patented May 21, 1867



Witnesses.

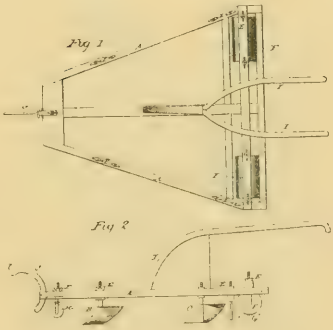
Inventor.

Albert Wilcox

T. E. GARDINER

Cultivator

No. 64,967 Patented May 21, 1867



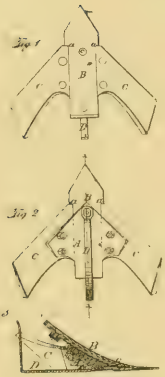
Witnesses

Inventor

G. W. COOPER.

Cultivator.

No. 65,728 Patented June 11, 1867.



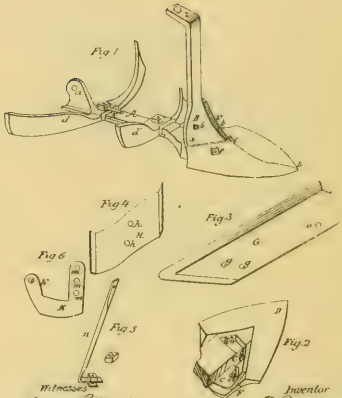
Inventor:
Munn & Co.
attys for
Geo W Cooper
by O Knight
Supt.

Inventor:
Wm Ebo
Ed. Morrison

T. P. WARREN.

Cultivator.

No. 65,847. Patented June 18, 1867.



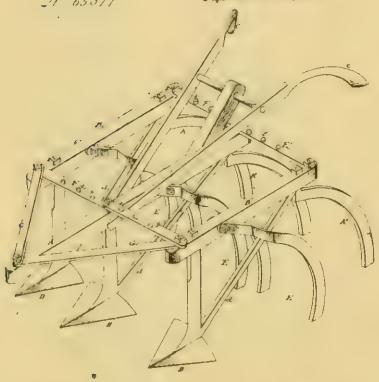
Witnesses
Chas. A. Pettit
John C. Kenon

Inventor
T. P. Warren
per Munn & Co
Attorneys

G. W. Cooper.

Cultivator

No. 65,877 Patented June 18, 1867



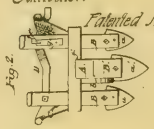
WITNESSES:
Chas. A. Pettit
J. C. Kenon

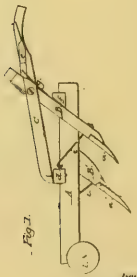
INVENTOR:
George W. Cooper
per Munn & Co.
Attorneys.

Bennendefer & Smith,

Cultivator.

No. 66,281. Patented July 2, 1867.





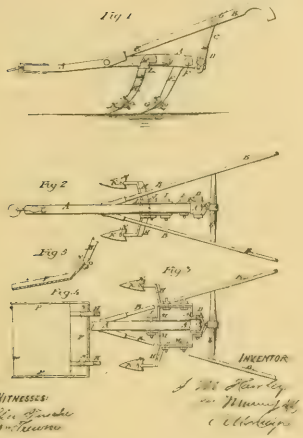
WITNESSES:
A. Bledsoe jr.
A. Harris

INVENTOR
H. S. Bennendefer
George Smith
by Alexander Mason
Attorney

J. M. Hawley,

Cultivator,

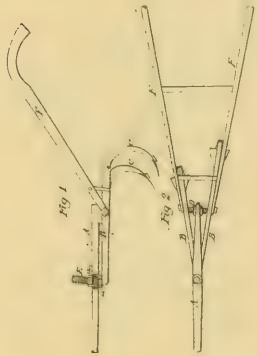
No. 66,335. Patented July 2, 1867.



S. H. Herrick.

Cultivator.

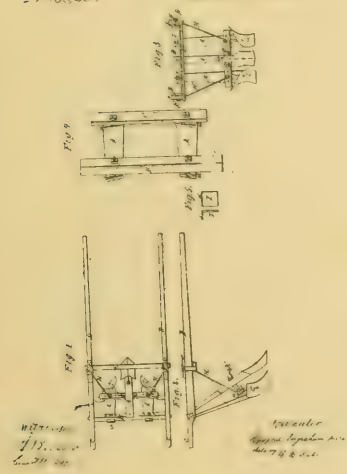
No. 66,340. Patented Jul 2, 1867.



[illegible]

Cultivator

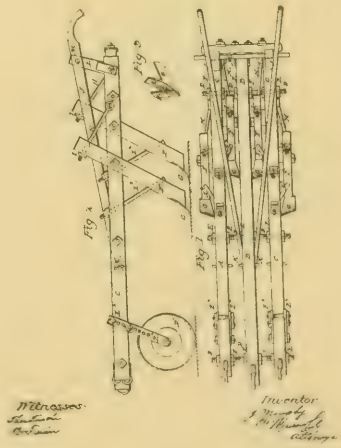
No. 66,495. Patented [illegible] 9, 1867



J. MURPHY.

Cultivator

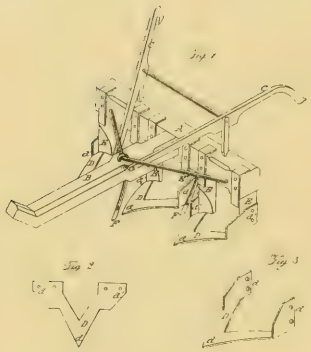
No. 66,871. Patented July 16, 1867.



F. M. SHIELDS.

Cultivator.

No. 66,895. Patented July 16, 1867.



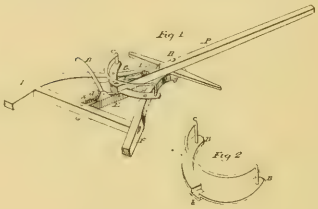
Witnesses.
Geo. A. Harrison
N. L. Ellsworth

Inventor.
F. M. Shields
per Munn & Co. Attys

S. L. Heisey.

Cultivator.

No. 67,430 Patented Aug. 6, 1867.



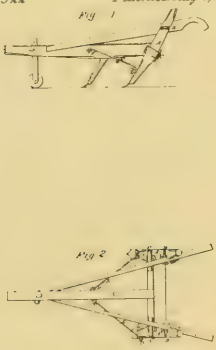
Witnesses
Wm. H. Riley
B. F. Thomas

Inventor.
Samuel L. Heisey.

J. Frank.

Cultivator.

No. 67,522 Patented Aug. 6, 1867.



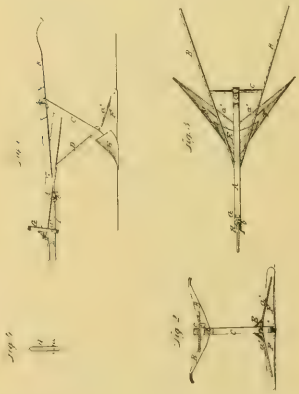
Witnesses
H. Smith
Wm. Dwyer

Inventor
Crispin Hommedieu
Atty

S. F. SEELY.

Cultivator.

No. 67,595. Patented Aug. 6, 1867.



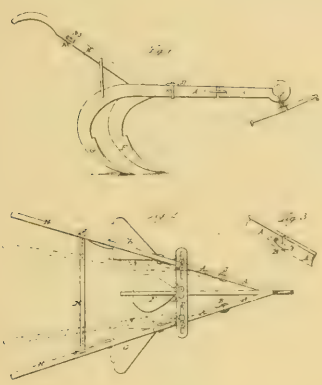
Witnesses.
Thos. Tuck
J. Albance

Inventor.
S. F. Seely
Per Munn & Co.
Attys

A. CANFIELD.

Cultivator

No. 67,843. Patented Aug. 20, 1867.



Witnesses:

S. S. Patton

Jno. W. Lord

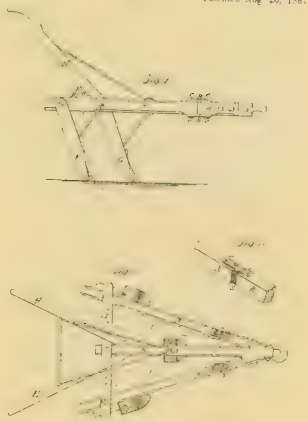
Inventor.

Aaron Canfield

A. CANFIELD.

Cultivator

No. 67,844. Patented Aug. 20, 1867.



Witnesses.

S. S. Patton

Jno. W. Lord

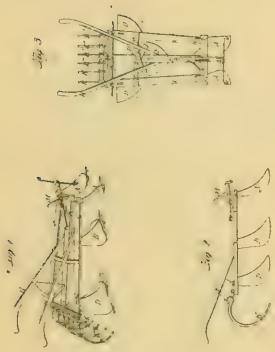
Inventor.

Aaron Canfield

G. W. SAWIN.

Cultivator.

No. 67,917. Patented Aug. 20, 1867.



Witnesses.

A. Hunt Berry

Frank G. Parker

Inventor.

George W. Sawin

J. P. STANTON

Cultivator

No. 68,392. Patented Sept. 3, 1867.

Witnesses.

W. H. Smith

P. E. Allen

Inventor.

James P. Stanton

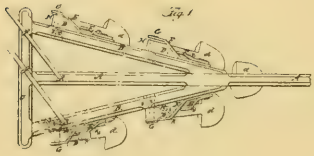
L. Crook

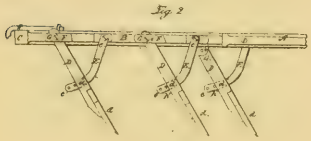
C. H. Allen

J. R. THOMAS.

Cultivator.

No. 68,670. Patented Sept. 10, 1867.





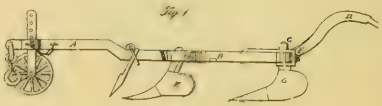
Witnesses.
L. Hall
C. A. Potter

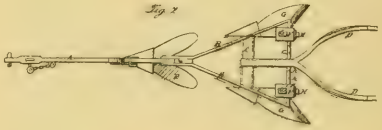
Inventor.
J. R. Thomas
per Munn & Co.
Attorneys

W. RICHARDSON.

Cultivator.

No. 68,901. Patented Sept. 17, 1867.





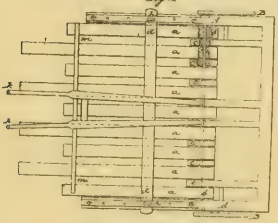
Witnesses.
Charles A. Pettit
(S. on C. Kemon)

Inventor.
Wm. Richardson
per Munn & Co.
Attorneys.

H. W. OSTROM

Cultivator

No. 69,239 Patented Sept. 24, 1867



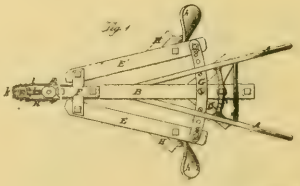
Witnesses.
Geo. Fischer
Wm. Adam Overall

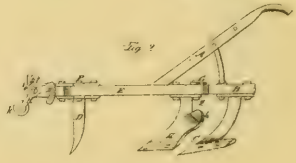
Inventor.
H. W. Ostrom
per Munn & Co.
Attorneys

N. A. CATES.

Cultivator.

No. 69,314. Patented Oct. 1, 1867.





Witnesses.
Charles H. Craig
J. R. Peyton

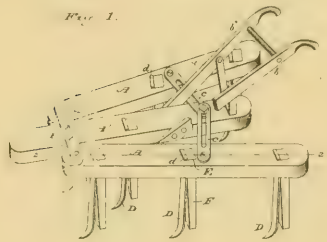
Inventor.
N. A. Cates
by his attorney
Parker Anderson

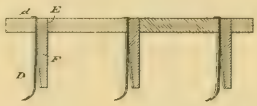
D. Guptail.
Cultivator.
No. 69,801. Patented Oct. 15, 1867.

Witnesses
N. P. Johnson
B. Burnett

Inventor
Dan Guptail

D. GUPTAIL,
Assignor, by mesne assignments, to C. La Dow
Cultivator.
No. 9,087. Reissued Feb. 17, 1880.

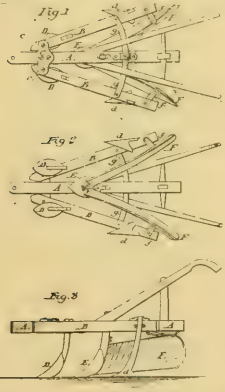




WITNESSES
Wm A. Schmidt
Geo W. Crosby

Charles La Dow Assignee of
INVENTOR
Dan. Guptail.
By his Attorneys
P. Johnson & Johnson & Sampson

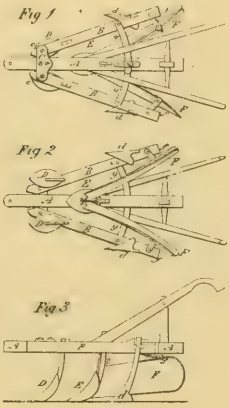
Morris & Green.
Cultivator.
No. 69,928. Patented Oct. 15, 1867.



Witnesses
Geo. H. Kyes
E. Wentworth

Inventor
E. F. Morris
R. J. Green
per E. G. Lester
Attorney

E. F. MORRIS & R. J. GREEN.
COMBINED HOE AND POTATO-DIGGER.
No. 7,157. Reissued June 9, 1874.



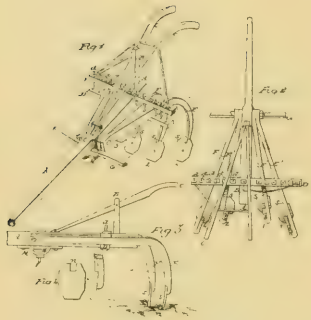
WITNESSES
J. Jones
A. White

INVENTOR
E. F. Morris & R. J. Green
by W. Greenough
Atty

C. FLORY

Cultivator.

No. 69,981. Patented Oct. 22, 1867.



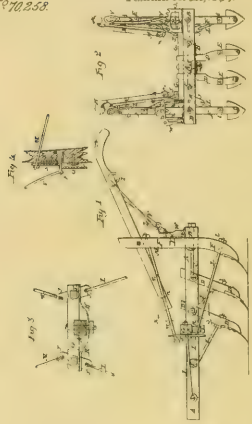
WITNESSES

INVENTOR

E. W. Pike.

Cultivator. Patented Oct. 22, 1867.

No. 70,258.



Witnesses.

Inventor

RICE & HITCHCOCK.

Cultivator.

No. 70,472. Patented Nov. 5, 1867.

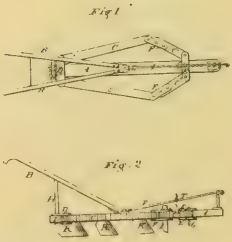
Witnesses:

Inventor.

S. A. Kroner,

Cultivator.

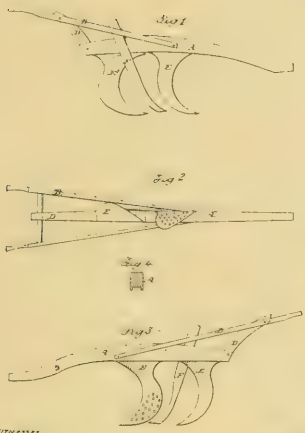
No. 70,578. Patented Nov. 5, 1867.



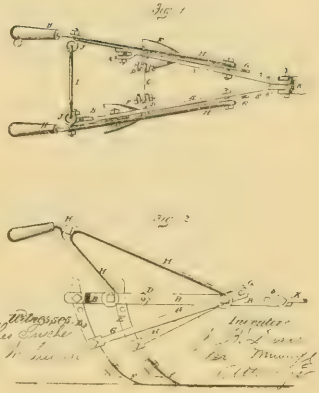
Witnesses

Inventor

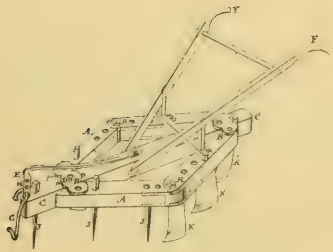
A. C. BELT
Cultivator
No. 70,785. Patented Nov. 12, 1867.



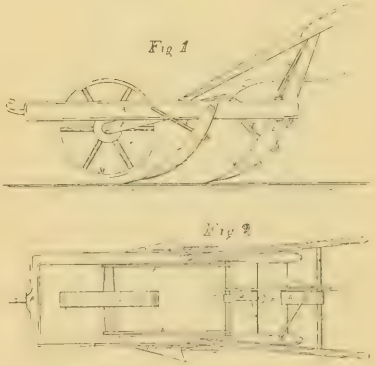
J. F. Watts,
Cultivator
No. 70,972. Patented Nov. 19, 1867.



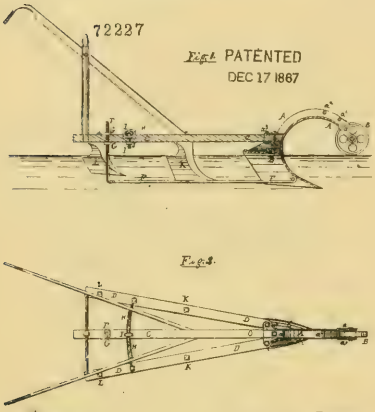
J. W. Ernst,
Cultivator
No. 71,175. Patented Nov. 19, 1867.



William Duffners
improvements in
Cultivators.
12004
PATENTED
DEC 10 1867



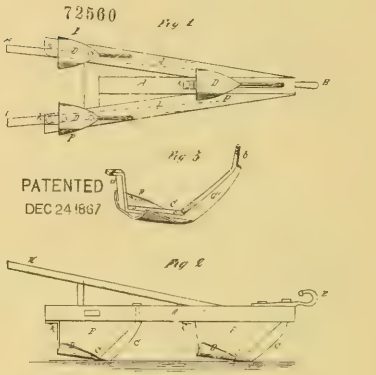
Charles B. Pettengill, Imp'n in Cultivators
assigned to Freeman & Merrill



Witnesses
Thos. Swoole
W. Gewin

Inventor
Chas. B. Pettengill
Per Munn & Co
Attorneys.

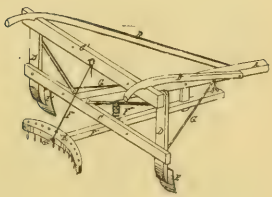
C. E. Sturtevant, W. E. Keyes & D. W. Jones, Cultivator.



Witnesses
Geo. F. Nehl
W. Spencer

Inventors
C. E. Sturtevant
W. E. Keyes
D. W. Jones
Per Munn & Co,
Attorneys

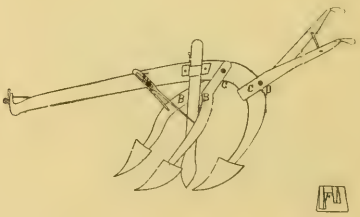
W. Franiz
Cultivator.
No. 73087 Patented Jan. 7, 1868.



Witnesses.
B. H. Sprague
Chas. Clausen

Inventor.
Wm. Franiz
by
D. J. McCallum his atty

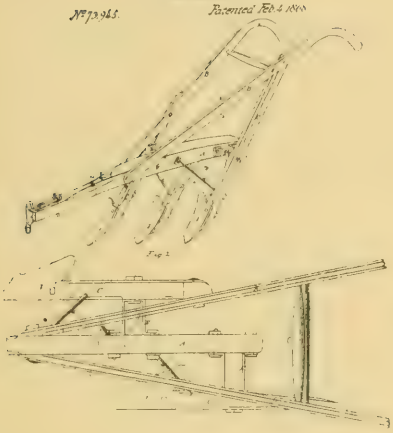
H. C. Chandler
Shovel-Plow.
No. 73231 Patented Jan. 14, 1868



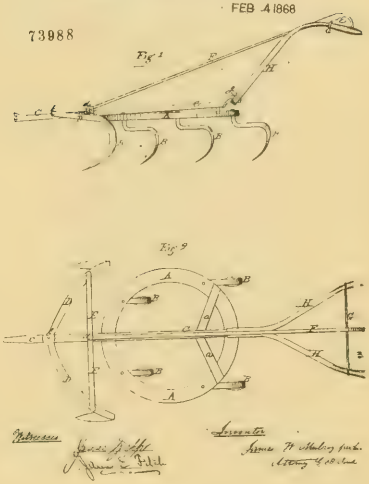
Witnesses
James R. Brown
Geo. A. Fisher

Inventor
H. C. Chandler

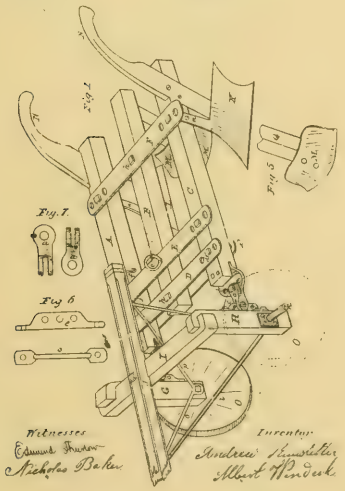
F. N. Bawler's
Cultivator
No. 73,945. Patented Feb. 4 1868



James W. Haley
Improvement in Cultivators
PATENTED
FEB 4 1868
73988

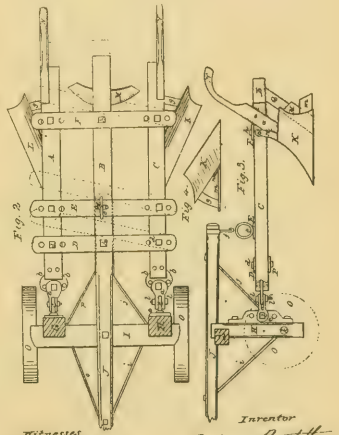


Sheet 1. 2 Sheets
Runsteller & Windeck.
Cotton Plow & Cultivator.
No. 74005 Patented Feb. 4, 1868.



Witnesses
Edward Thurow
Nicholas Baker
Inventor
Andrew Runsteller
Albert Windeck

Sheet 2. - 2 Sheets
Runsteller & Windeck.
Cotton Plow & Cultivator.
No. 74005 Patented Feb. 4, 1868.

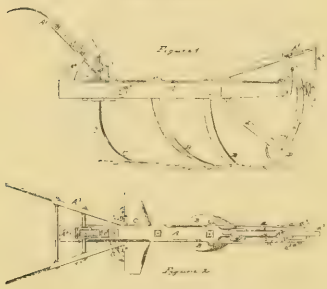


Witnesses
Edward Thurow
Nicholas Baker
Inventor
Andrew Runsteller
Albert Windeck

H. B. Armoldt & J. Grimm PATENTED FEB 4 1868

74031

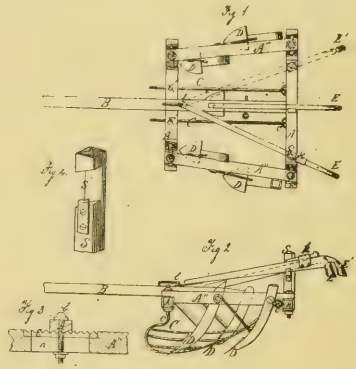
Cultivator



Witnesses
Geo. Hartshorn Jr.
J. E. White

Inventors
H. B. Armoldt & J. Grimm
By Munn & Co. Attorneys

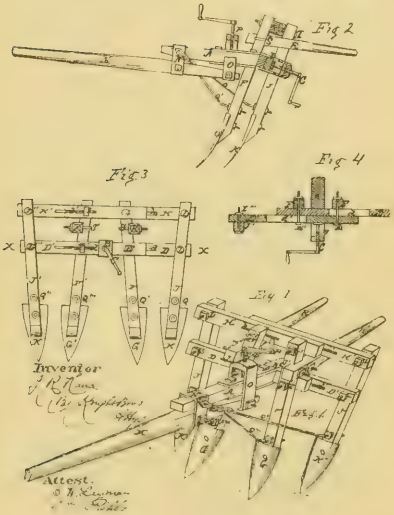
I. B. Arthur.
Corn-Plow & Cultivator.
No 74032 Patented Feb. 4, 1868.



Witnesses
S. C. Keyes
E. H. Ricar

Inventor
Isaac N. Arthur
By Munn & Co
Attorneys

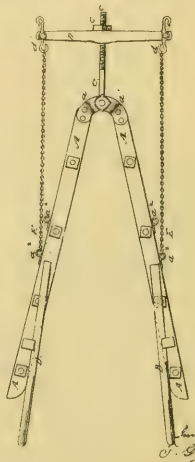
Jno. R. Hand,
Cultivator;
No 74082. Patented Feb. 4, 1868.



Inventor
J. R. Hand
By Munn & Co
Attorneys

Attest.
S. N. Lawrence
Geo. Dodge

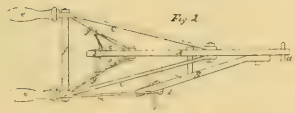
Green & Sommer.
Cultivator.
No 74344 Patented Feb. 11, 1868



Witnesses.
W. C. Dodge
Theo. Fouche

Inventors,
J. Green
J. Sommer
per Munn & Co
Attorneys

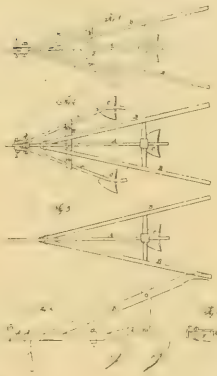
J. Snyder.
Cultivator.
No. 74441 Patented Feb. 11, 1868.



Witnesses.
J. M. Lamb
Chas. Clare.

Inventor
J. Snyder
per Brown Combs & Allg

B. F. Ream.
Shovel-Plow & Cultivator.
No. 74721 Patented Feb. 18, 1868.



Witnesses
J. J. Wingham
Charles Hutchinson

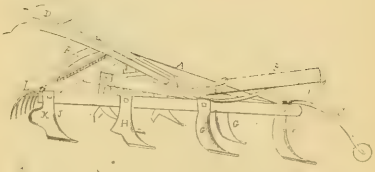
B. F. Ream
J. Ward Ream
Per Attorney

C F Taylor
Cultivator
PATENTED
FEB 25 1868
74775

WITNESSES
E. S. Potter
G. F. Brown

INVENTOR
C. F. Taylor by
Geo. E. Brown
Atty

John Heff Jr. Improvement in
Cultivators
PATENTED
MAR 3 1868
75185



Witnesses.
Charles Hutchinson

John Heff, Jr. Inventor

D. S. SLATER.
CULTIVATOR.
75211
PATENTED
MAR 3 1868

Fig. 1.

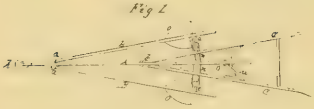


Fig. 2.

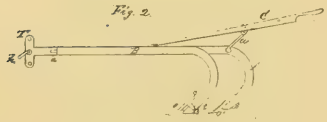


Fig. 3. Fig. 4.

D. S. Slater,
Inventor,
by Dodger & Munn
Attorneys

Witnesses
J. T. Doty
Chas. Johnson

W. R. Adams
Corn-Cultivator.
No 75718 Patented Mar. 24, 1868.

Fig. 1.

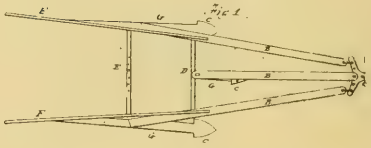


Fig. 2.

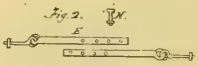
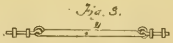


Fig. 3.



Witnesses
Chas. Saunderson
J. G. Dunlap

Inventor
W. R. Adams.

G. W. Downs,
Cultivator.
No. 76418 Patented Apr. 7, 1868.

Fig. 1.

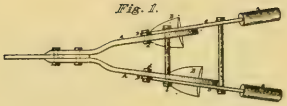
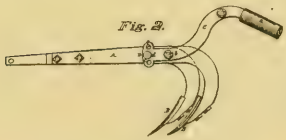


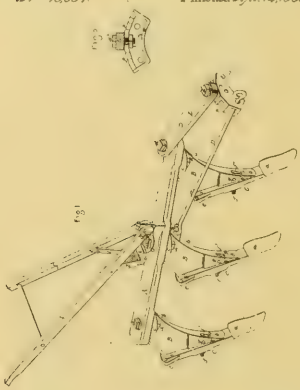
Fig. 2.



Witnesses
Geo. C. Humphrey
Charles Merriam

Inventor
G. W. Downs
by
D. S. Brown & Co
his Attorneys

C. W. Zeigler.
Sheet-2-Sheets
Cultivator.
No 76,687. Patented April 14, 1868



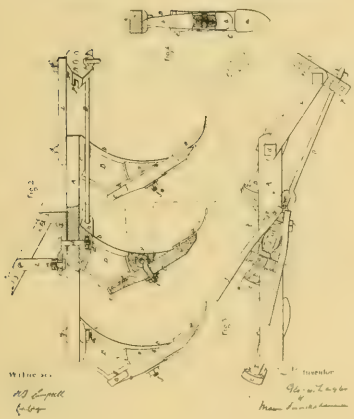
Witnesses
S. Duffield
Geo. Taylor

Inventor
Geo. W. Zeigler
by
Munn & Co
Attorneys

C. W. Zeigler.

Cultivator.

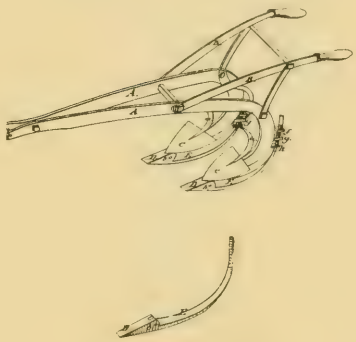
No. 76,687.



Fisher & Bates

Cultivator

No. 76,736. Patented Apr. 14, 1868



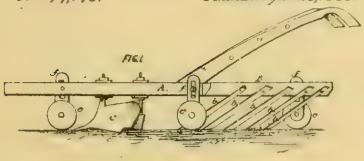
WITNESSES:
R. R. Evans
M. McGrain

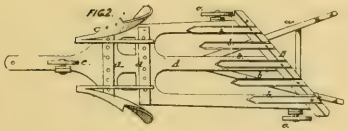
INVENTOR:
J. B. Fisher
Lewis Bates
by their Atty
Wm. Allen

Darling & Gray

Cultivator

No. 77,176. Patented Apr. 28, 1868.





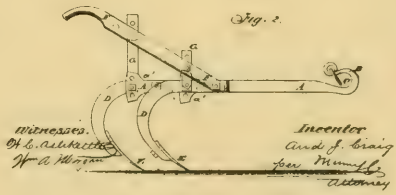
WITNESSES:
A. A. Campbell
J. C. Campbell

INVENTOR
Martin Darling
Hale Gray
per H. C. Hurd
Atty

A. J. Craig,

Cultivator.

No. 77,260. Patented Apr. 28, 1868



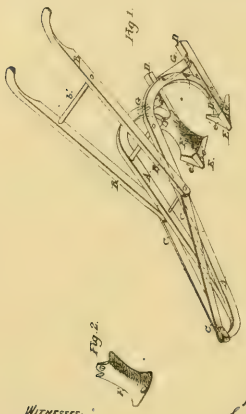
Witnesses.
Ch. L. Albright
Wm. A. Wagner

Inventor
Andrew J. Craig
per Munn & Co
Attorneys

S. B. Forbes

Cultivator

No. 77,474 Patented May 5, 1868



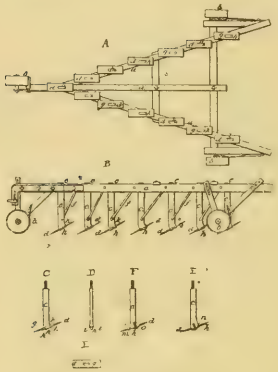
Witnesses:
H. C. Ashkettle
Geo. H. Morgan

Inventor:
S. B. Forbes.
per Munn & Co.
Attorneys.

H. F. Foster.

Cultivator.

No. 78,000. Patented May 19, 1868.



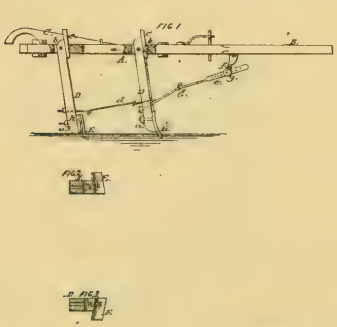
Witnesses
J. H. Fuller
G. Thomas Brown

Inventor
H. A. Foster
by his Atty
Crosby & Gregory

A. Campbell,

Cultivator.

No. 78,181. Patented June 2, 1868.



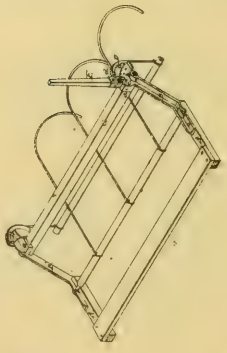
Witnesses:
H. C. Ashkettle
Geo. H. Morgan

Inventor:
A. Campbell
by Munn & Co.
Attys.

J. S. & I. Rowell,

Cultivator

No. 78,181. Patented June 2, 1868.



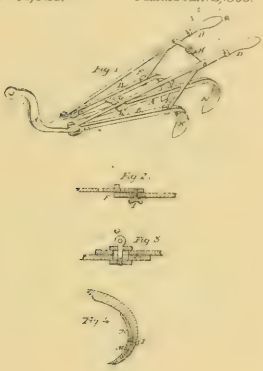
Witnesses.
J. Alex. Lee
G. W. Ll.

Inventor
J. S. & I. Rowell
per J. H. Alexander
Attorney

W. Walton.

Cultivator.

No 78,626. Patented Jun. 2, 1868.



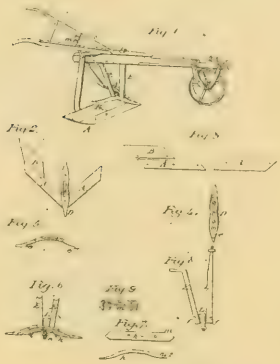
Witnesses:
[illegible]
[illegible]

Inventor:
W. Walton
by Prindle & Dyer
Attorneys.

E. W. Walton.

Cultivator.

No 78,774. Patented Jun. 9, 1868.



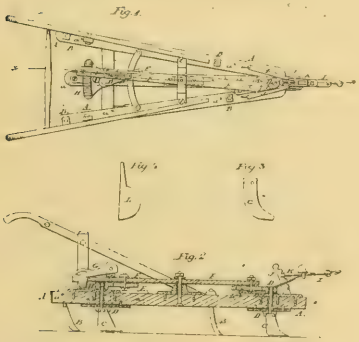
Witnesses:
[illegible]
[illegible]

Inventor:
E. W. Walton
by
[illegible]
Atty.

S. Reed.

Cultivator.

No 79,001. Patented Jun. 16, 1868.



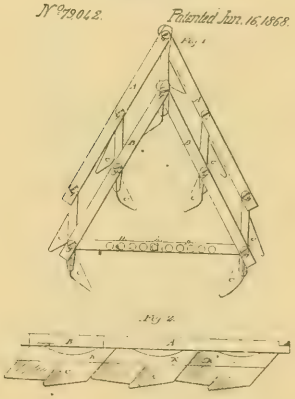
Witnesses
[illegible]
[illegible]

Inventor:
Saml. Reed
by Munn & Co.
Attorneys.

F. R. Wilson.

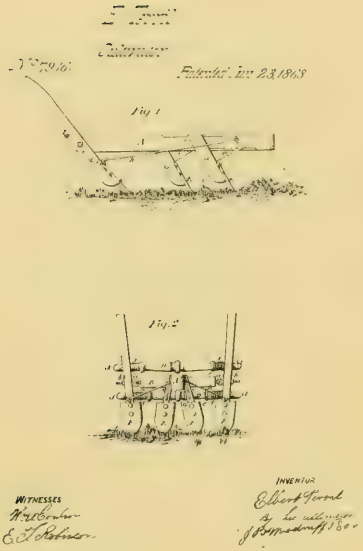
Cultivator.

No 79,042. Patented Jun. 16, 1868.

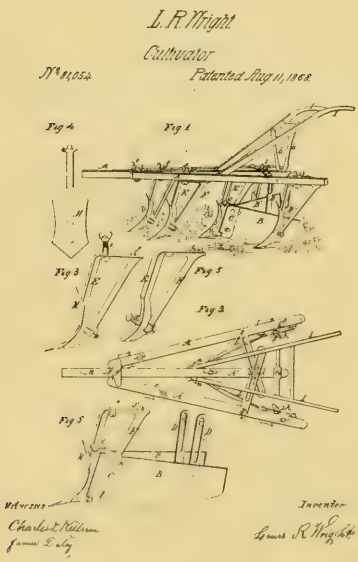


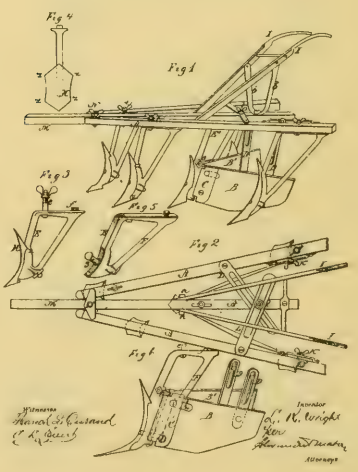
Witnesses
[illegible]
[illegible]

Inventor
F. R. Wilson
by Alexander Stedman
Atty.

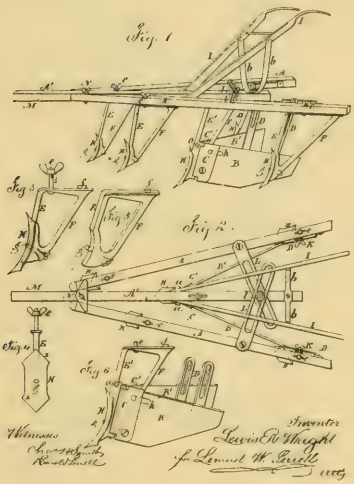

Patented Jan 23 1868
Fig 1
Fig 2
Witnesses
Inventor

A. F. Routt,
Cultivator.
No. 80015.
Patented July 14, 1868.
Fig 2
Fig 1
Witnesses
Inventor:

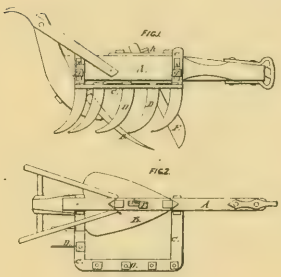

L. R. Wright
Cultivator
No 81054
Patented Aug 11, 1868
Fig 4
Fig 1
Fig 3
Fig 5
Fig 2
Witnesses
Inventor


L. R. WRIGHT.
Cultivators and Plows Combined.
No. 5,532.
Reissued August 12, 1873.
Fig 4
Fig 1
Fig 3
Fig 5
Fig 2
Witnesses
Inventor

L. R. WRIGHT.
CULTIVATOR AND PLOW COMBINED.
No. 6,836. Reissued Jan. 4, 1876.



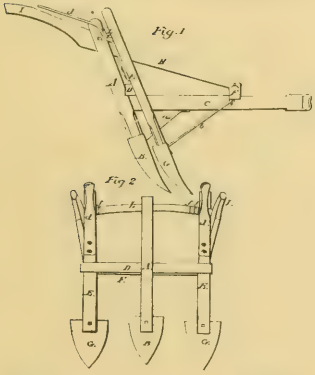
J. H. Dickson,
Cultivator.
No. 81,148. Patented Aug. 18, 1868.



Witnesses:
N. D. Stockbridge
A. M. Morrow

Inventor
J. H. Dickson
for
Edward Madden
attorney

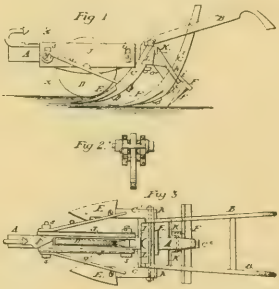
J. Meyer
Cultivator
No. 81,189. Patented Aug. 18, 1868.



Witnesses:
Cornelius Bap
Herbert Bush

Inventor
Jacob Meyer
for Albert Dennis
Attorney

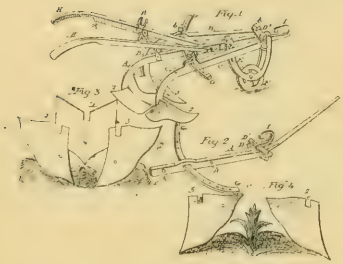
McNeeley & Cady
Cultivator
No. 81,807. Patented Sept. 1, 1868.



Witnesses:
S. C. Kenyon
E. N. Platt

Inventor:
Wm. Neeley & Geo. Cady
by Wm. H. Phelps
attorney

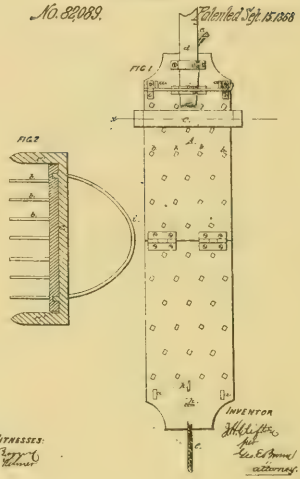
M. Stoll,
Cultivator.
No. 82,013. Patented Sep. 8. 1868.



Witnesses:
Wm. R. Foley
Jacob Hoffler

Inventor:
Michael Stoll

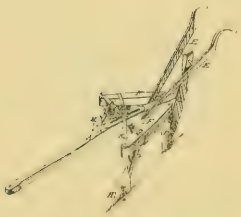
J. K. Clifton,
Cultivator.
No. 82,089. Patented Sep. 15. 1868.



Witnesses:
C. R. Wright
H. Wilson

Inventor
J. K. Clifton
per
Geo. E. Bonn
attorney.

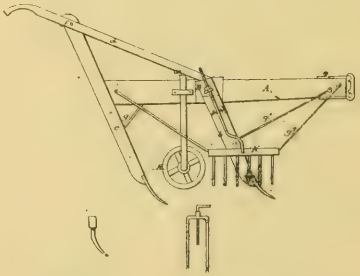
T. Thorley,
Cultivator;
No. 82,180. Patented Sep. 15. 1868.



Witnesses
H. G. Ellis
J. Spratley

Inventor
Thos Thorley
per attorney
J. E. Ellis

W. Rodgers,
Cultivator.
No. 82,753. Patented Oct. 6. 1868.



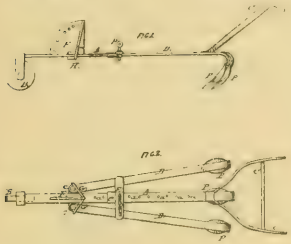
Witnesses:
Geo. I. Thornley
H. G. Sumpter

Inventor:
Wm. Rodgers by
J. H. Rhodes
attorney

D. S. Early,

Cultivator.

No. 82,814. Patented Oct. 6, 1868.



Witnesses:
C. A. Pettit
S. L. Kerr

Inventor
D. S. Early
per
Munn & Co
Attorneys

D. Mater,

Cultivator.

No. 82,868. Patented Oct. 6, 1868.

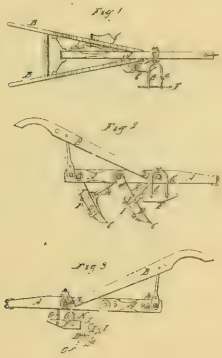
Allen
W. F. Hargrave
Thos. J. Hutchinson

Daniel Mater
Inventor
D. R. Holloway & Co
Attys

D. Mater.

Plow

No. 83,488. Reissued Jan. 8, 1869



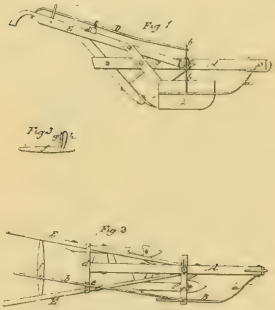
Witnesses:
R. R. Sherry
J. Henry Peck

Inventor
D. Mater.
D. R. Holloway & Co.
Attys

R. T. Taylor,

Cultivator.

No. 83,310. Patented Oct. 20, 1868.



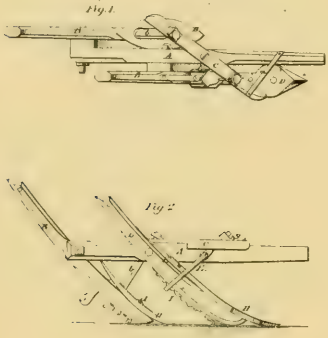
Witnesses
Leopold Eisch,
Cornelius Cox

Inventor
per
T. Taylor
Alexander Mason
Atty.

W. H. Startzman.

Cultivator.

No. 83,564. Patented Oct. 27, 1868.



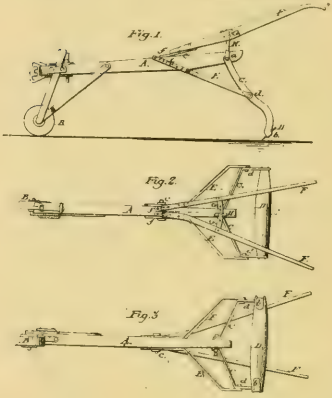
Witnesses:
[illegible]

Inventor:
Co. H. Startzman
per Alexander & Mason
attorneys

Mattson & Williamson.

Cultivator.

No. 83,719. Patented Nov. 3, 1868.



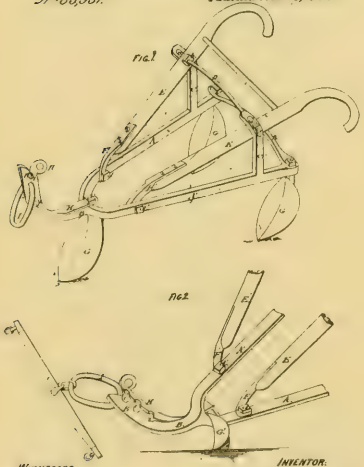
Witnesses:
[illegible]

Inventor
Lorenzo Mattson
J. P. Williamson
per [illegible]

L. Clifton.

Cultivator.

No. 83,931. Patented Nov. 10, 1868.



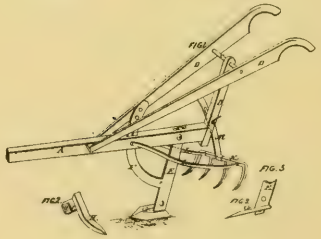
Witnesses
[illegible]

Inventor:
Leander Clifton
by Alex. & L. Mason & Co.
attorneys

T. Dillon.

Cultivator.

No. 84,094. Patented Nov. 17, 1868.



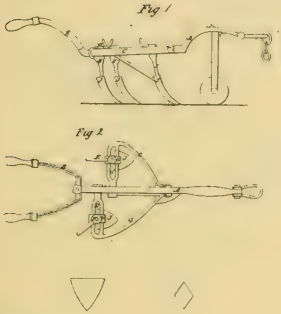
Witnesses:
[illegible]
Leopold Cour[illegible]

Inventor:
Thomas Dillon
by
Alexander & Mason
attorneys

T. White.

Cultivator.

No. 84,238. Patented Nov. 17, 1868.



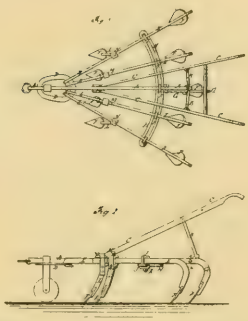
Witnesses:
J. H. Burridge
Frank Sadlon

Inventor:
Thos. White.

T. Arndt,

Cultivator.

No. 81,338. Patented Nov. 24, 1868.



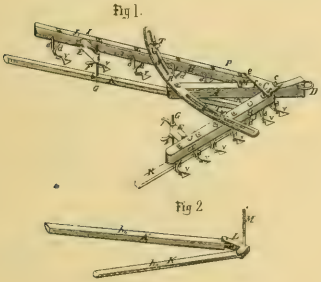
Witnesses.
Wm. A. Wingate
Geo. H. Graves

Inventor
T. Arndt
per Munn & Co
Attorneys

C. Lobdell,

Cultivator.

No. 84,199. Patented Dec. 1, 1868.



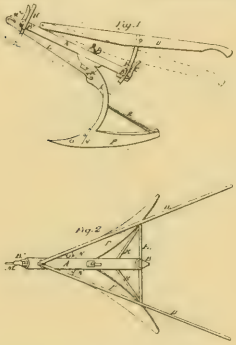
Witnesses.
D. A. Hayward
J. P. Bryant

Inventor,
Calvin Lobdell
By his attorney
C. H. Chapin

S. F. Seely.

Cultivator.

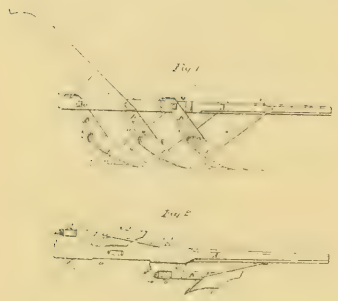
No. 84,911. Patented Dec. 15, 1868.



Witnesses
C. F. Cheek
Geo. S. Gray

Inventor
S. F. Seely
Per attorney
Chas. H. Spencer

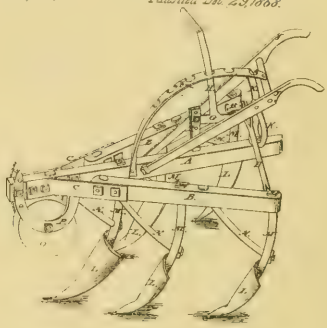
W. U. Hoover,
Plow
No 86,916. Patented Dec. 15. 1868.



WITNESSES
W. J. Rodgers
L. Haller

INVENTOR,
W. W. Hoover
by Rodgers & Thurman
Attorneys

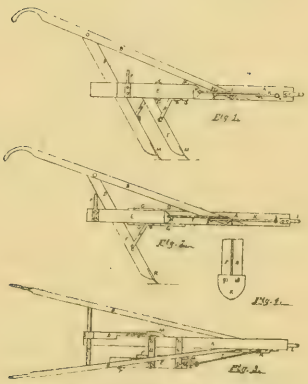
J. Millard.
Cultivator
No 86,467. Patented Jan. 29, 1868.



WITNESSES
Henry H. Ott
Leopold Kosch

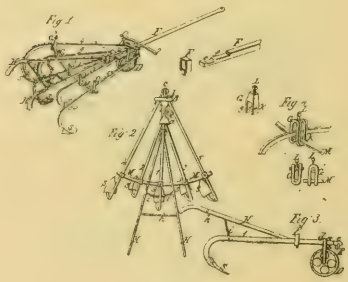
INVENTOR:
Joseph Millard
by Chandler & Thurman
Attorneys

Marlor & Berry,
Cultivator.
No. 85,162. Patented Dec. 29. 1868



Witnesses
Saml. W. Oliver
W. W. Hollenbaum
J. M. Marlor
Edmund Berry
Witnesses
John Abbott

C. Schwanger.
Cultivator.
No 85,862. Patented Jan 12, 1869.



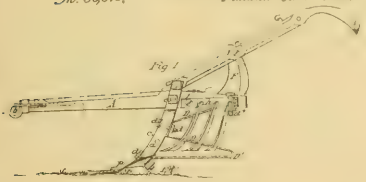
Witnesses,
Jacob F. Hershey
Philip Wm. Schmidt

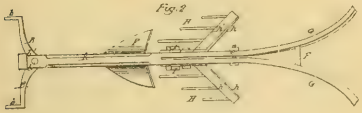
Inventor,
Lyons Schwanger

Mr. H. F. Jones,

Cultivator.

No. 86,079. Patented Jan. 19, 1869.





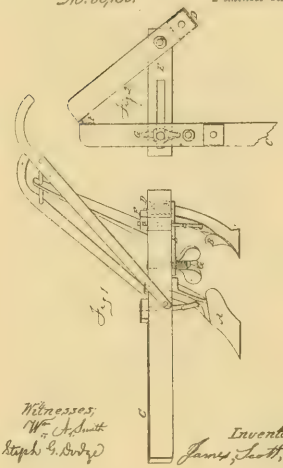
Witnesses:
L. A. Potter
J. O. Kinnan

Inventors:
J. H. & H. F. Jones
Per Munn & Co
Attys

J. S. Smith,

Cultivator.

No. 86,135. Patented Jan. 26, 1869.



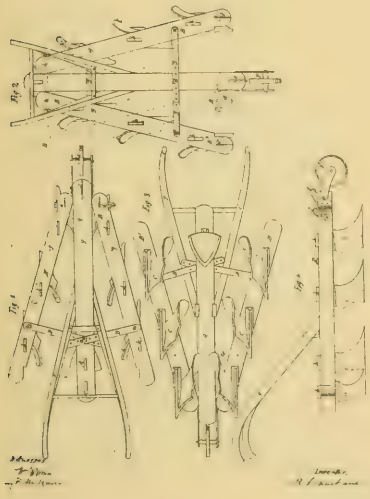
Witnesses;
W. A. Smith
Stephen G. Budd

Inventor,
James Scott Smith

R. I. Burbank.

Cultivator.

No. 86,502. Patented Feb. 2, 1869.



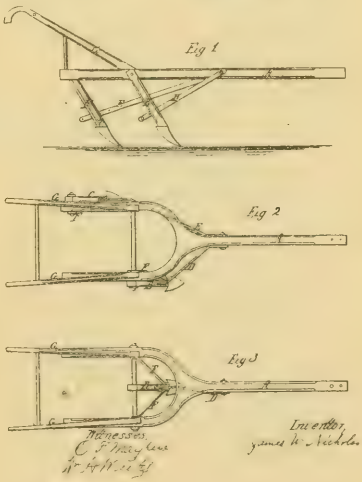
Witnesses
F. Wm
F. Ch. Kenn

Inventor
R. I. Burbank

J. W. Nicholson.

Sward Plow.

No. 86,577. Patented Feb. 2, 1869.



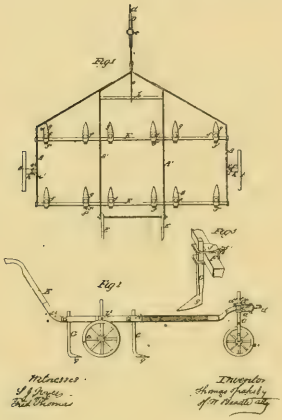
Witnesses
C. F. Mary Cass
W. H. West Jr

Inventor,
James W. Nicholson

T. Hicks.

Cultivator.

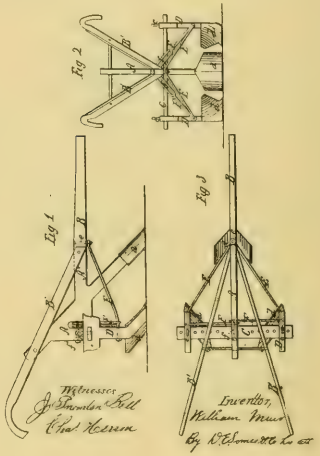
No. 86,750. Patented Feb. 9, 1869.



W. Muir.

Horse Hoe.

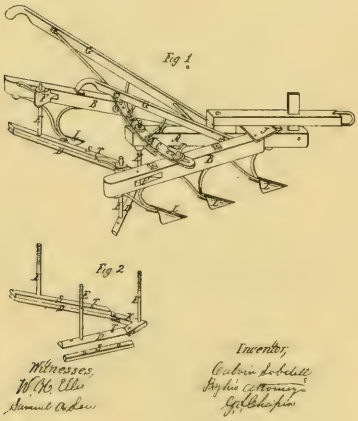
No. 87,060. Patented Feb. 16, 1869.



C. Lobdell,

Horse Hoe.

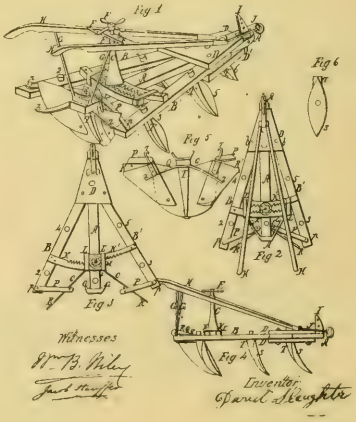
No. 87,347. Patented Mar. 2, 1869.

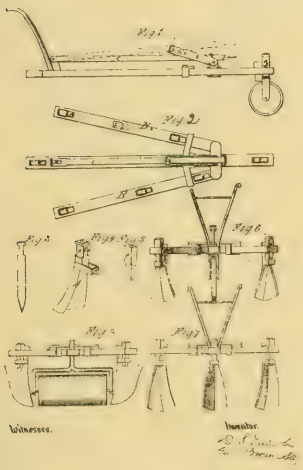


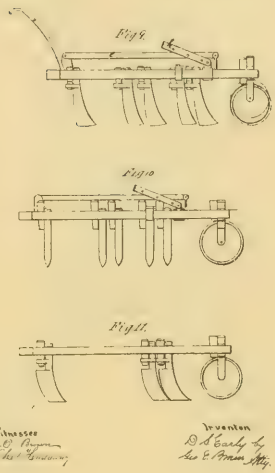
H. Slaughter,

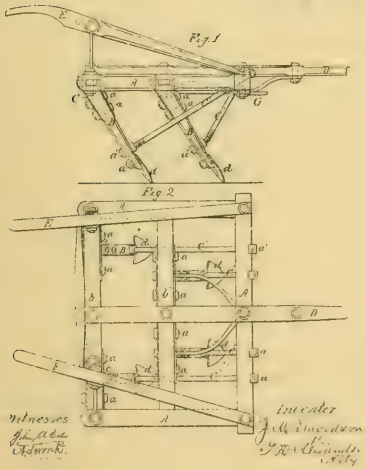
Cultivator.

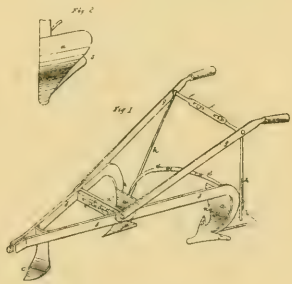
No. 87,373. Patented Mar. 2, 1869.




J. S. Early.
2 Sheets Sheet 1
Cultivator.
No. 87,100.
Patented Mar. 2. 1869.
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Fig 6
Fig 7
Fig 8
Witnesses.
Inventor.


J. S. Early,
2 Sheets Sheet 2.
Cultivator.
No. 87,100.
Patented Mar. 2. 1869.
Fig 9
Fig 10
Fig 11
Witnesses
Inventor

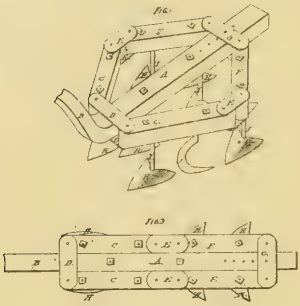

J. M. Davidson,
Cultivator.
No. 87,914.
Patented Mar. 16. 1869.
Fig 1
Fig 2
Witnesses
Inventor


S. B. Forbes,
Cultivator Plow.
No. 88,025.
Patented Mar. 23. 1869.
Fig 1
Fig 2
Witnesses:
Inventor.

A. Grohmann,

Cultivator.

No. 88,024. Patented Mar. 23, 1869.



Witnesses:

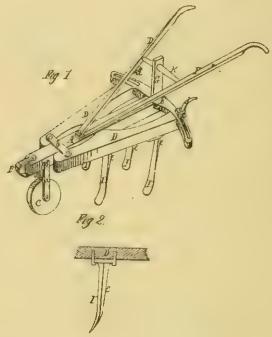
Inventor:

A. Grohmann

H. Landis.

Cultivator.

No. 88,045. Patented Mar. 23, 1869.



Witnesses:

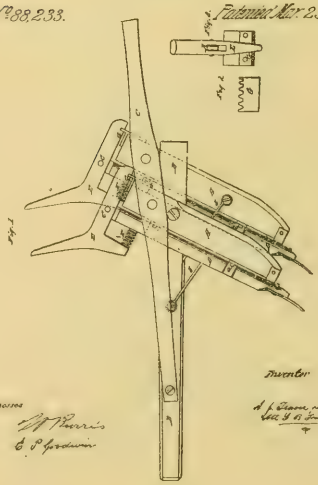
Inventor:

Henry Landis

A. J. Traver.

Plow.

No. 88,233. Patented Mar. 23, 1869.



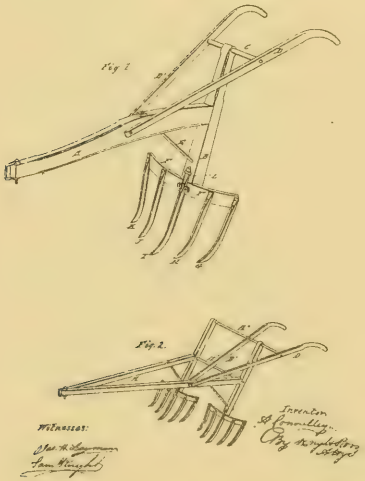
Witnesses:

Inventor:

A. Cornelley.

Cultivator.

No. 88,136. Patented Mar. 23, 1869.



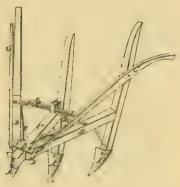
Witnesses:

Inventor:

E. Knapper.

Plow.

No. 88,723. Patented Apr. 6, 1869.



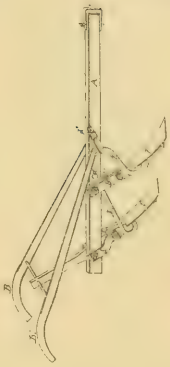
Witnesses.
A. N. Botes
David Pedrick

Inventor.
Eli Knapper.

J. M. Dorman.

Plow.

No. 89,565. Patented May 4, 1869.



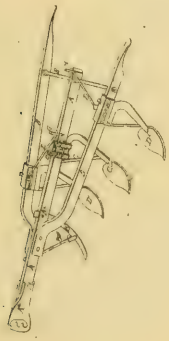
Witnesses:
E. W. Hufstedler
Rufus R. Parsley

Inventor
J. M. Dorman

A. J. Lewis.

Cultivator.

No. 91,031. Patented Jun. 8, 1869.



Witnesses:
Samuel Pickett
John C. Clark

Inventor:
Alfred John Lewis

B. M. Closz.

Cultivator.

No. 91,212. Patented Jun. 15, 1869.

Fig. 1.

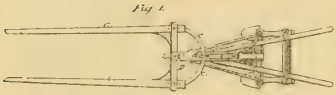
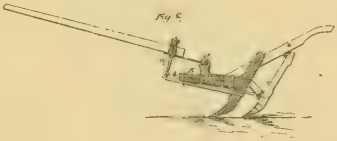


Fig. 2.



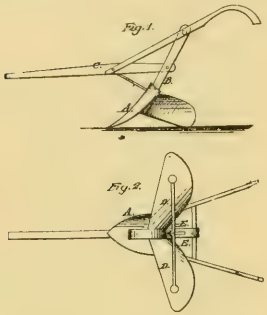
Inventor
B. M. Closz
by his Attorney
A. Pedrick

Witnesses
W. Parsley
[illegible]

J. A. Benedict,

Cultivator.

No. 91,303. Patented June 15, 1869.



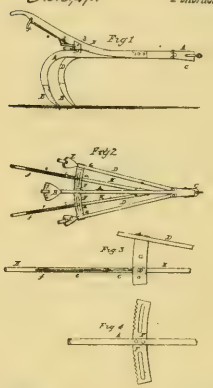
Witnesses:
Chichester
Jno. A. Brooks

Inventor:
J. A. Benedict
Munn & Co
attorneys.

Mitchener & Steigmyer,

Cultivator.

No. 91,471. Patented June 15, 1869.



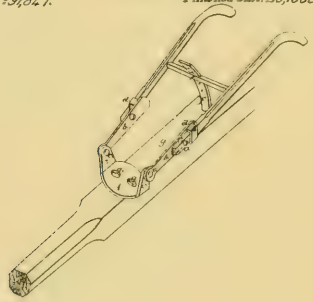
Witnesses
Richard Rauh
J. H. Hardy

Inventors
J. L. Mitchener
Jno. F. Steigmyer
Munn & Co. Attorneys

E. S. Huff.

Cultivator.

No. 91,847. Patented Jun. 29, 1869.



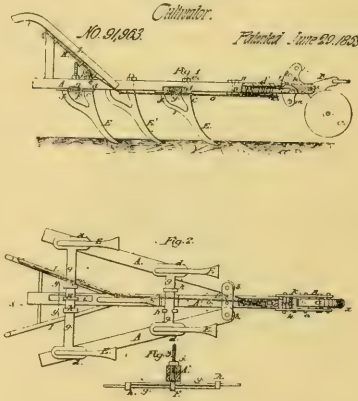
Witnesses
Chas. R. Gray
Jr. J. Allen

Inventor:
E. S. Huff
by his attorneys
J. Portland & Co.

J. L. Ferry,

Cultivator.

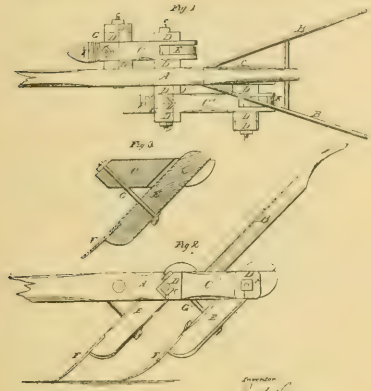
No. 91,803. Patented June 29, 1869.



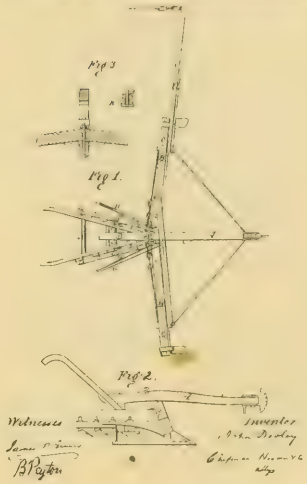
Witnesses
Joel Wagner
G. C. Bolton

Inventor
J. L. Ferry
per Munn & Co
attorneys

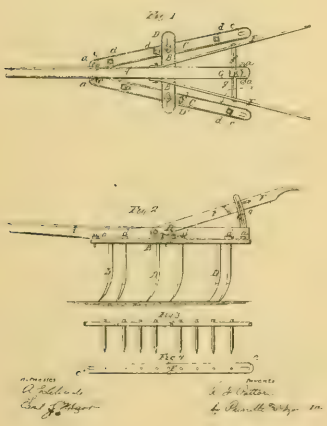
J. L. Hood,
Cultivator
No. 92,448. Patented July 13, 1869



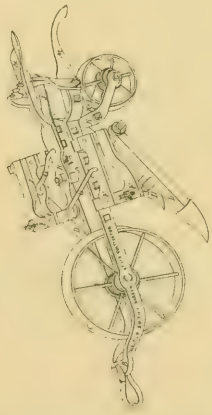
J. Dooley,
Cultivator
No. 90,590 Patented May 25, 1869



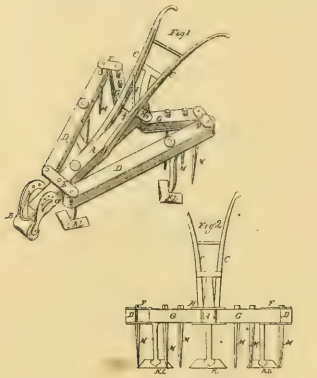
R. F. Patton,
Cultivator
No. 92,611. Patented July 13, 1869.



W. Smith,
Cultivator
No. 93,017 Patented July 27, 1869



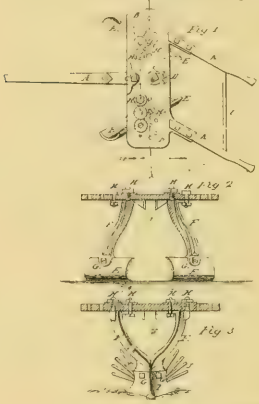
H. Detwiler,
Cultivator.
No. 93,042. Patented Jul. 27, 1869



Witnesses:
Geo. Phil. Smith
Jonas Colyer

Inventor
H. Detwiler
Per Albert
Ind. S. Gregory

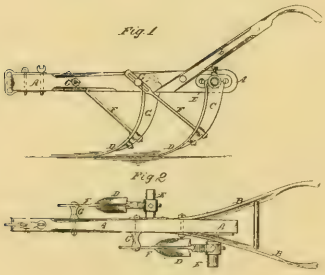
S. Huber,
Plows Cultivator:
No. 93,203. Patented Aug. 3. 1869.



Witnesses:
J. H. Ringwalt
Geo. W. Mabee

Inventor:
S. Huber
Per Munn & Co
Attorneys

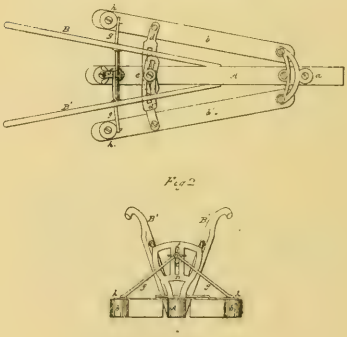
E. Ward,
Cultivator.
No. 93,507. Patented Aug. 10. 1869



Witnesses:
J. H. Ringwalt
Geo. W. Mabee

Inventor:
E. Ward
Per Munn & Co
Attorneys.

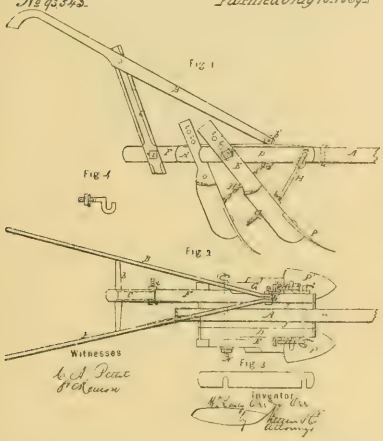
E. S. Gregory
Cultivator.
No. 93,530 Patented Aug. 10, 1869.



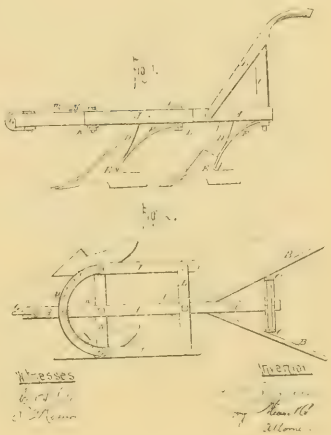
Witnesses,
A. H. Smith
C. Alexander

Inventor,
E. S. Gregory
Per. J. H. Alexander Atty

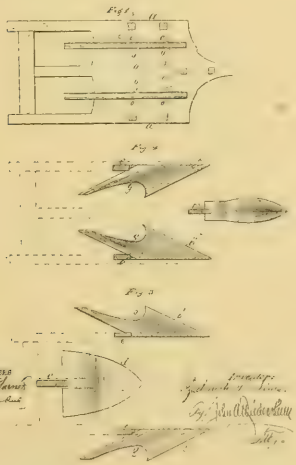
McCurly Orr & Orr.
Combination Plow
No. 93,543. Patented Aug. 10, 1869.



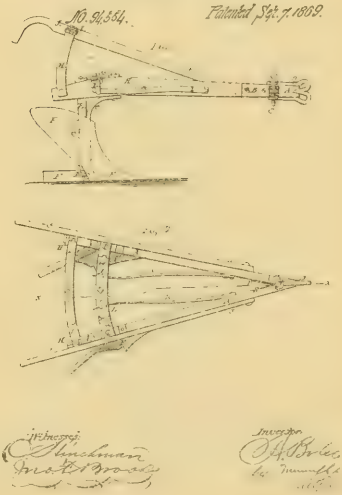
T. F. Reynolds.
Cultivator.
No. 94,133. Patented Aug. 24, 1869.



Z. B. Sims.
Cultivator.
No. 94,351. Patented Aug. 31, 1869.

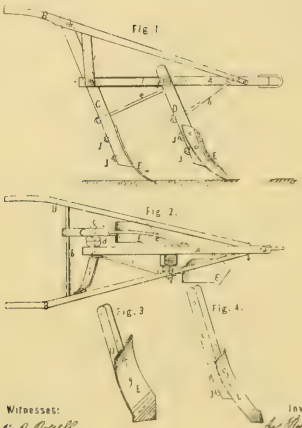


A. Boles.
Cultivator.
No. 94,364. Patented Sept. 7, 1869.



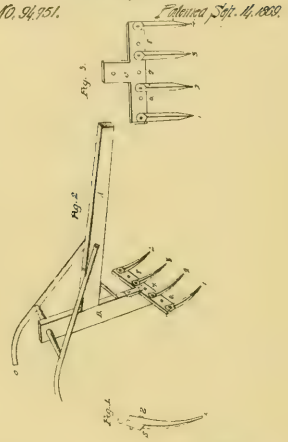
J. Stephens,
Plow

No. 91,019. Patented Sep. 7. 1869.



W. & D. M. Hunter,
Cultivator.

No. 94,951. Patented Sept. 14. 1869.

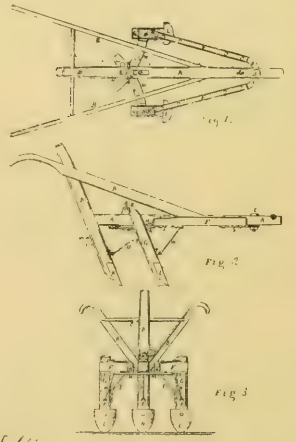


I. I. Morrow,
Cultivator

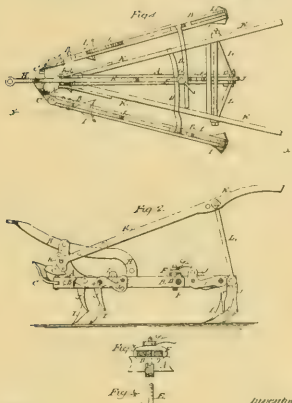
No. 95,035. Patented Sept. 21. 1869.

E. E. Kimerer,
Plow

No. 96,010. Patented Oct. 19. 1869.



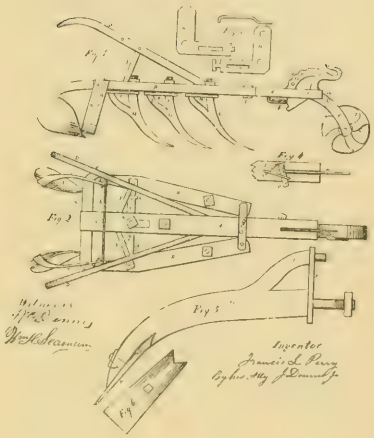
J. H. Lockie,
Cultivator
No. 96,126. Patented Oct. 26. 1869.



Witnesses:
A. W. Hargrave
Geo. W. Morgan

Inventor:
J. H. Lockie
by
Munn & Co.
attorneys

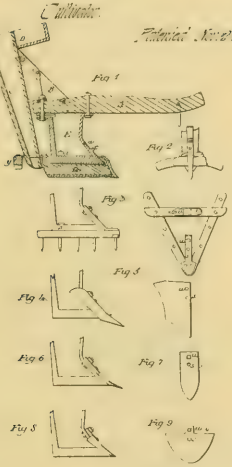
No 96,316. Patented Nov. 2. 1869.



Witnesses
J. W. Zerrer
W. H. Freeman

Inventor
Francis L. Perry
by his Atty J. Dennis

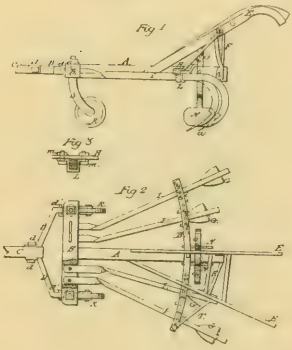
M. C. Cox,
Cultivator.
No 96,399. Patented Nov 2 1869



Witnesses
E. W. Anderson
James T. Evans

Inventor
M. C. Cox
by
Munson & Co
Attorneys

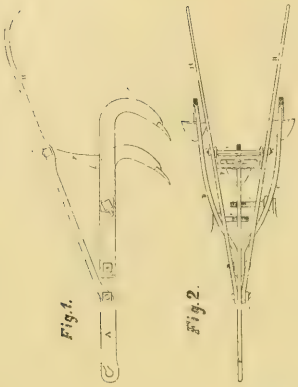
W. H. Bott,
Corn Plow.
No. 96,607. Patented Nov. 9. 1869.



Witnesses
E. A. Price
P. Kinnon

Inventor
W. H. Bott
per
Munn & Co
attorneys

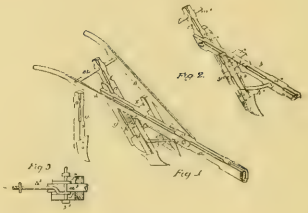
Hall & Phillips,
Cultivator.
No. 97,757. Patented Nov. 9, 1869.



Witnesses
E. H. Anderson
D. D. Kane

Inventors
Edw. C. Hall
Jethro Phillips
by Spencer Parker & Co
Attorneys.

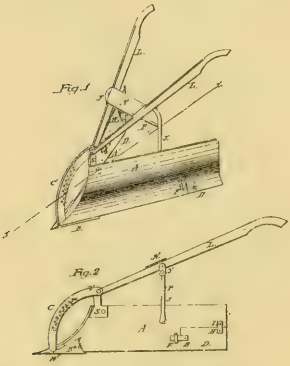
J. Simpson,
Cultivator.
No. 98,079. Patented Nov. 16, 1869.



Witnesses
Frank Pennell
W. H. Clark

Inventor
James Simpson

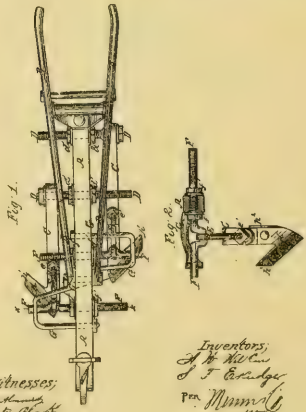
A. Shaw,
Cultivator.
No. 97,319. Patented Nov. 30, 1869.



Witnesses
Wm. R. Richards
Jos. B. Klunck

Inventor
Alex. Shaw
by W. H. Richards
Atty's.

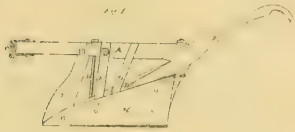
Milkins & Eskridge,
Cultivator.
No. 97,685. Patented Nov. 30, 1869.

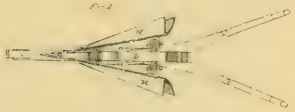


Witnesses;
A. W. Kenyon
W. H. Clark.

Inventors;
A. W. Milkins
J. F. Eskridge
per Munn & Co
Attys.

O. Grow,
Plow.
No. 97,609. Patented Dec 7, 1869.

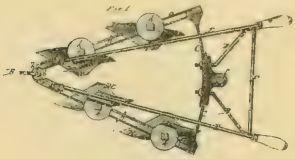




Witnesses
Henry King
J. H. Brown

Inventor
Charles Grow
per Munn & Co
Attys.

J. C. Holmes,
Corn Cultivator.
No. 97,921. Patented Dec. 14, 1869.



Witnesses
Henry King
E. G. Buck

Inventor
John C. Holmes
per Munn & Co
Attys.

S. T. Spaulding,
Cultivator.
No. 98,202. Patented Dec. 21, 1869.

Fig. 1

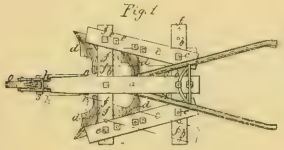


Fig. 2.

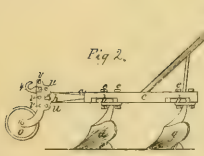
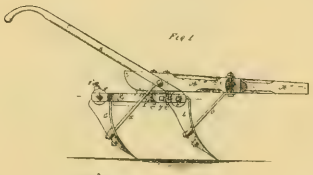


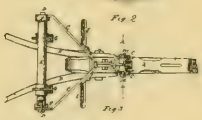
Fig. 3

Witnesses
R. J. Dyer
Geo. H. Mott

Inventor
S. T. Spaulding
By J. Fraser Tabb
Attorney

E. Ward,
Cultivator.
No. 98,214. Patented Dec. 21, 1869.

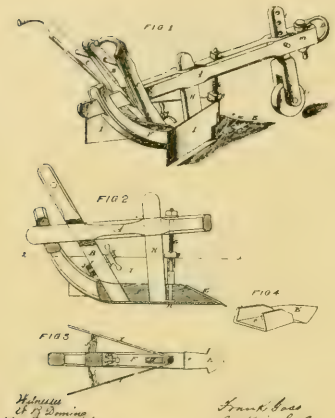




Witnesses:
J. H. Hazard
Geo. H. Weber

Inventor:
E. Ward
per Munn & Co
Attorneys

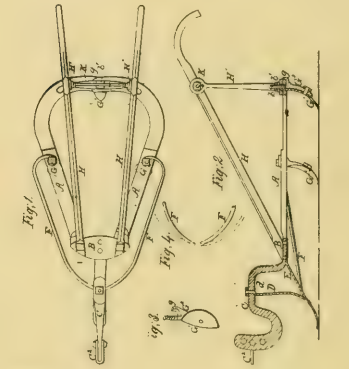
F. Cox,
Cultivator.
No. 98,851. Patented Dec. 28, 1869.



Witnesses
H. G. Dunning
Wm. de Burton

Frank Cox
By Knightbridge

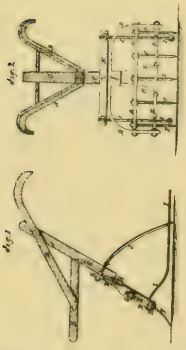
B. S. Cox.
Cultivator.
No. 98,471. Patented Jan. 4, 1870.



Witnesses
A. H. Connelly
J. B. Connelly

Inventor
Harmon S. Cox
by attorney,
Thos. A. Connelly

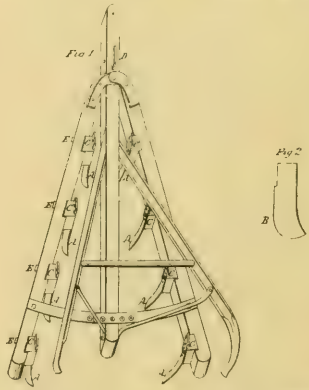
B. F. Ward,
Cultivator.
No. 98,650. Patented Jan. 4, 1870.



Witnesses:
Thos. Connolly
Jno. W. Connolly

Inventor:
B. F. Ward
per Munn & Co.
Attorneys.

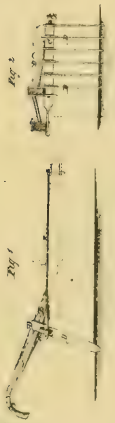
Knapp & Libby,
Cultivator
No. 98,908. Patented Jan. 25, 1870.



Witnesses
C. E. Woodbury
N. F. Libby

Inventors
Samuel B. Libby
Joseph G. Knapp

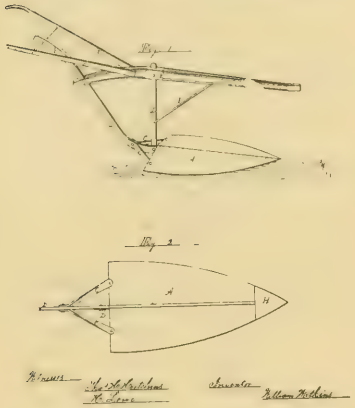
Thomas & Tuck,
Cultivator.
No. 99,285. Patented Jan. 25, 1870.



Witnesses:
Jno. H. Brooks
Edgar Tuck

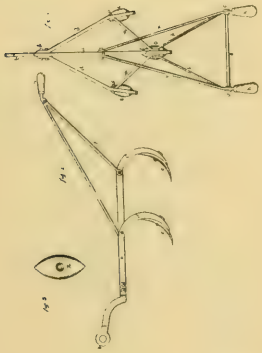
Inventors
Geo. Tuck,
per Wm. M. Tuck
Attorney.

W. Watkins,
Sub-soil Plow.
No. 99,317. Patented Feb. 1, 1870.



Witnesses: Jno. H. Brooks, W. Lowe
Inventor: William Watkins

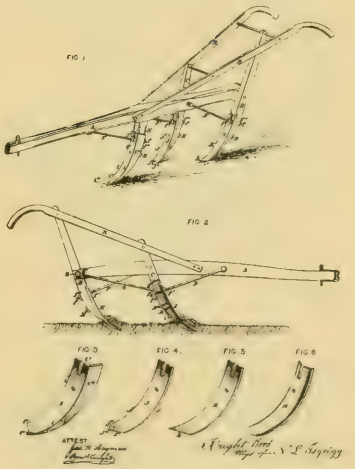
D. G. Farmer,
Cultivator.
No. 99,635. Patented Feb. 8, 1870.



Witnesses:
J. J. Geddes
M. Wolcott

Inventor
D. G. Farmer
by Munn & Co
Attys.

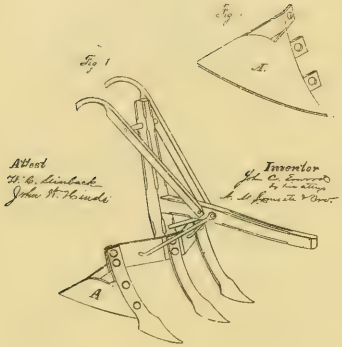
N. L. Sprague,
Cultivator.
No. 100,010. Patented Feb. 22, 1870.



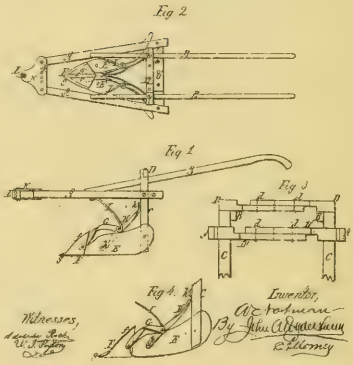
ATTEST
Jno. H. Brooks
Edw. Taylor

N. Knight Sprague
by his Atty. N. L. Sprague

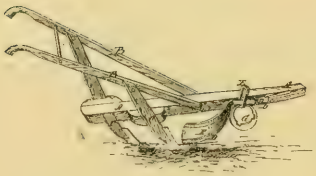
J. C. Emmert
Cultivator
No. 100,977 Patented Mar. 1, 1870.



W. Notman
Cultivator.
No. 100,655. Patented Mar. 8, 1870.

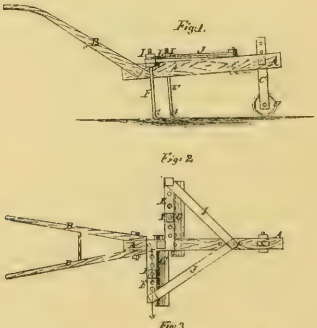


J. Clucker,
Cultivator.
No. 100,984. Patented Mar. 22, 1870.



Witnesses:
Alex. F. Roberts
Inventor:
J. Clucker
Per Munn & Co.
Attorneys.

H. W. Hasslock,
Cultivator.
No. 101,010. Patented Mar. 29, 1870.

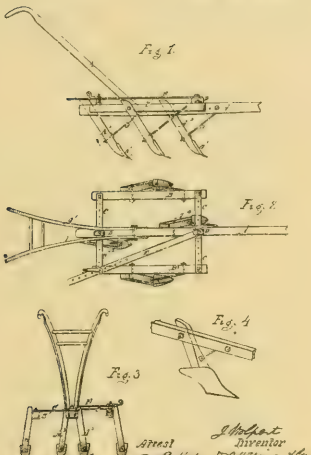


Witnesses:
Inventor:
Per Munn & Co.
Attorneys.

J. Wéjert,

Cultivator.

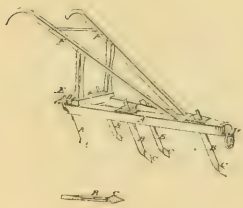
No. 101,900. Patented Mar. 29, 1870.



J. Bower.

Cultivator.

No. 101,976. Patented Apr. 19, 1870.



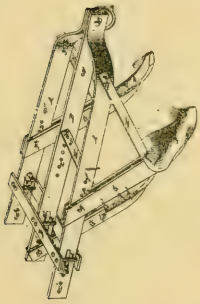
Witnesses:
H. P. K. Peck
Ruth J. Coddington

Inventor:
Robert Bower

A. S. Thorp,

Cultivator.

No. 102,015. Patented Apr. 19, 1870.

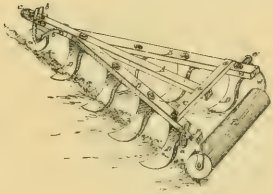


Witness
Henry J. Roll

Clements & Neeley.

Cultivator.

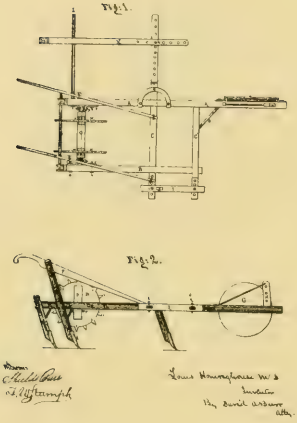
No. 102,223. Patented Apr. 26, 1870.



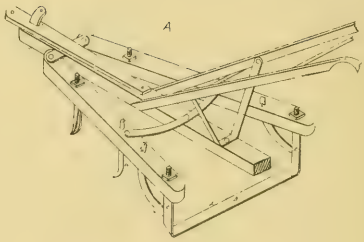
Witnesses:
H. K. Porter
Eugene F. Wood

Inventor:
Alex. P. Clements
John C. Neeley
By T. W. Porter
Attorney

L. Humphrey,
Cultivator.
No. 102,513. Patented May 3, 1870.

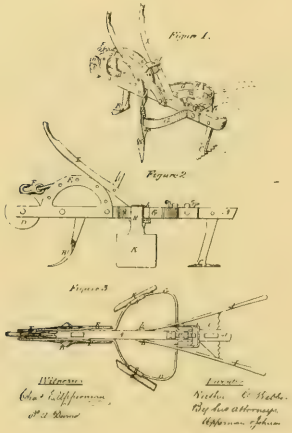


T. Mabbitt, Sr.,
Cultivator.
No. 102,811. Patented May 10, 1870.

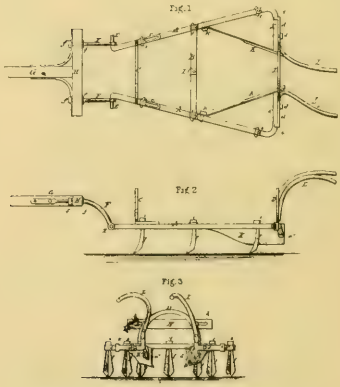


Witnesses
Inventor

N. G. Webber,
Cultivator.
No. 102,993. Patented May 10, 1870.



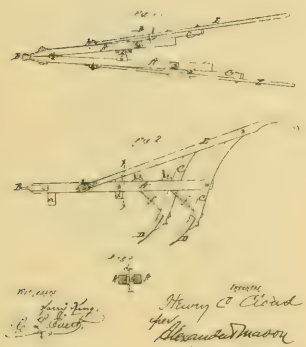
H. Laird,
Cultivator.
No. 102,476. Patented May 24, 1870.



H. C. Lloyd,

Plow.

No 103982. Patented June 7. 1870.



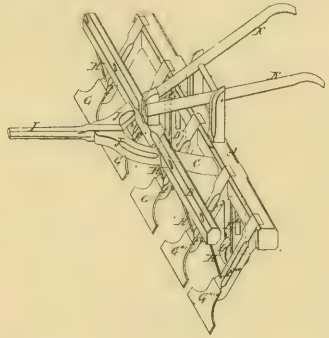
Witnesses
Henry Lloyd
E. R. Ewert

Inventor
Henry C. Lloyd
for Alexander Mason
Atty

R. C. Holt

Cultivator.

No 104,164. Patented Jun. 14, 1870.



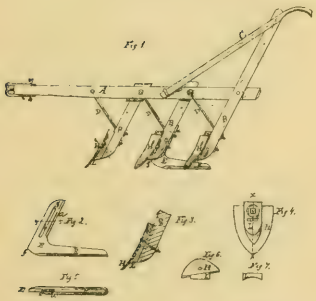
Witnesses
Rufus R. Rhodes
Wesley Sidney
E. H. Jenkins

Inventor
Rufus C. Holt
by Rufus R. Rhodes,
his atty

M. E. Goff,

Cultivator.

No. 104,989 Patented June 28. 1870.



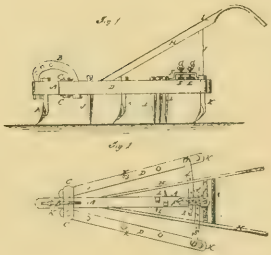
Witnesses
Gilbert & Lewis
Geo. A. Myers

Inventor
Marcellus E. Goff
by W. Rivers Atty

J. W. Philp,

Cultivator.

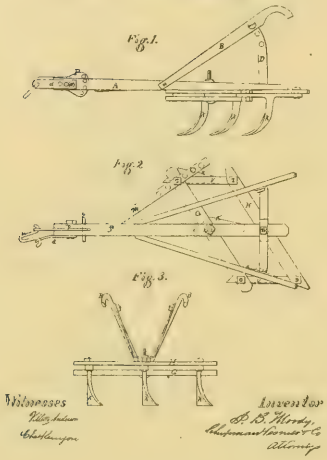
No. 104,753. Patented June 28. 1870.



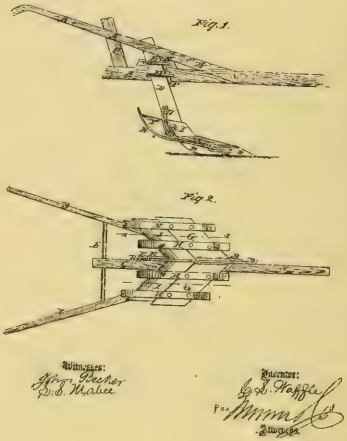
Witnesses:
Geo. Kase
S. S. Maser

Inventor:
J. W. Philp
per
Attorneys

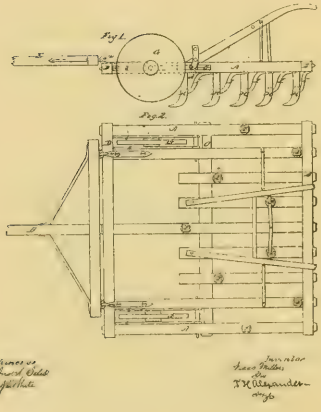
J. B. Moody.
Cultivator.
No. 105,358. Patented July 19, 1870.



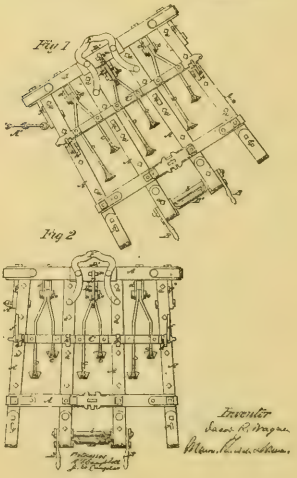
C. L. Nagle,
Cultivator.
No. 105,715. Patented July 26, 1870.



I. Miller,
Cultivator.
No. 105,828. Patented July 26, 1870.



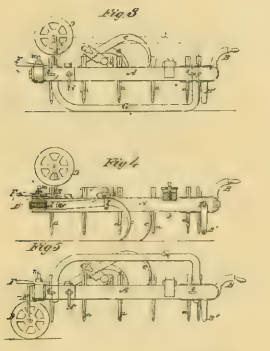
J. R. Wagner,
Cultivator.
No. 105,924. Patented July 12, 1870.
2 Sheets, Sheet 1.



J. R. Wagner, 2 Sheets, Sheet 2

Cultivator.

No. 106001. Patented Aug. 9. 1870.



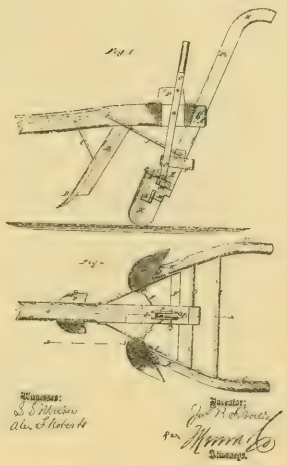
Witnesses
J. S. Hartshell
J. S. Clapper

Inventor
Harvey R. Wagner
Allen Fitchett & Lemen

J. B. Thomas.

Cultivator.

No. 106,235. Patented Aug. 9. 1870



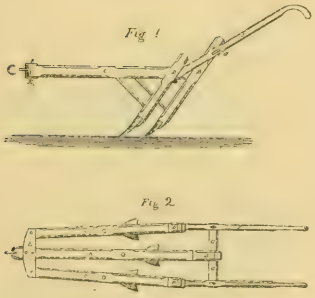
Witnesses:
D. S. Wilson
Alex. Fitchett

Inventor:
John B. Thomas
per Munn & Co
Attorneys.

H. Harrier,

Corn Plow.

No. 106,685. Patented Aug. 23. 1870.



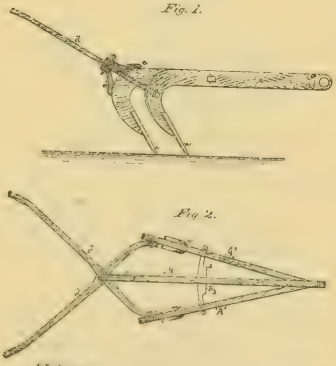
Witnesses.
O. F. Mapes
D. H. Fingler

Henry Harrier, Inventor
Indianapolis Ind

A. Leonard,

Cultivator.

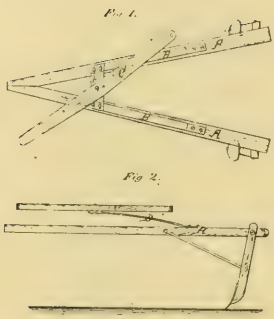
No. 108,902. Patented Aug. 23. 1870.



Witnesses.
Wm. Jones
John Wilson

Inventor.
Aug Leonard
by Wm. Simpson Atty.

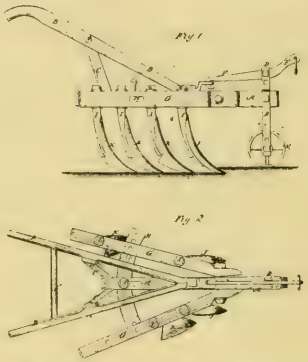
N. S. Shields,
Cultivator.
No. 106,733. Patented Aug. 23, 1870.



Witnesses:
F. H. Evans
J. G. Payne

Inventor:
N. S. Shields by
Wm. Pitts
Atty.

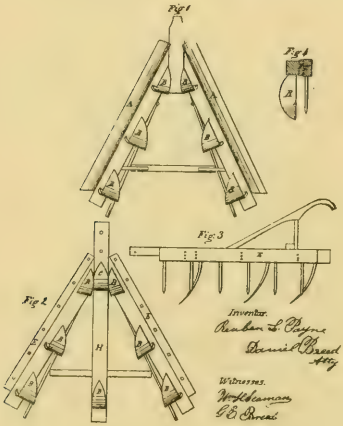
J. M. Lewis,
Cultivator.
No. 106,837. Patented Aug. 30, 1870.



Witnesses:
S. J. Mabee
M. F. Roberts

Inventor:
J. M. Lewis.
Pennie & Co.
Attorneys.

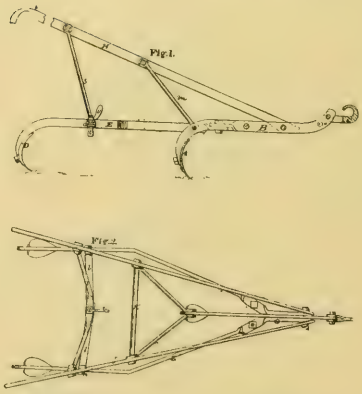
F. L. Payne,
Cultivator.
No. 106,956. Patented Aug. 30, 1870.



Inventor.
Reuben L. Payne
Daniel Breed
Atty.

Witnesses.
Wm. Hallman
G. B. Breed.

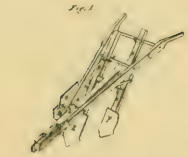
C. L. White,
Cultivator.
No. 107,142. Patented Sept. 6, 1870.

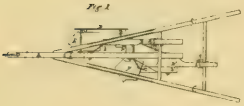


Witnesses:
Wm. Hallman
Chas. Hayes.

Inventor.
C. L. White
Chapman Horner & Co.
Attorneys.

S. G. Nagl,
Cultivator.
No. 107,109. Patented Sept. 13, 1870.

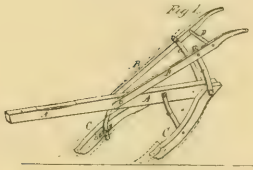




Witnesses:
Samuel J. Sprague
Frederick Hecht

S. G. Nagl
by attorney
Henry J. Sprague

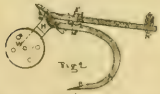
G. H. Smith,
Cultivator.
No. 107,116. Patented Sept. 13, 1870.



Witnesses.
Cornelius C. Shuler
Albert W. L. Weeks

George H. Smith
Inventor.
Thomas G. Orrig
Attorney

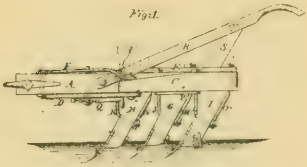
A. Ostertag,
Cultivator.
No. 107,508. Patented Sept. 20, 1870.

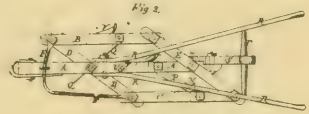


Witnesses: Frank C. Parker
J. H. Bent

Inventor
A. Ostertag

J. K. Hamilton,
Cultivator.
No. 107,464. Patented Sept. 20, 1870.





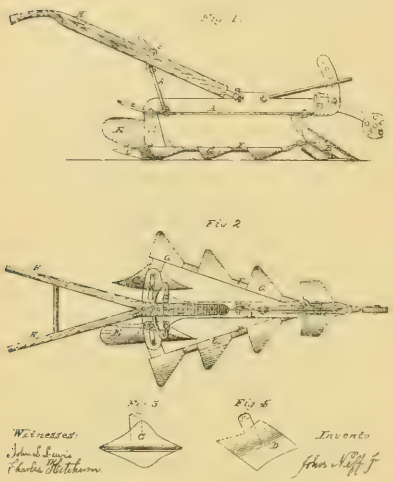
Witnesses:
[illegible]

Inventor:
J. K. Hamilton
per
[illegible]
Attorney.

John Neff Jr.

Improvement in Cultivators.

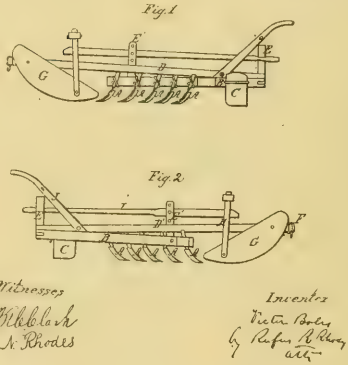
No. 107526 Patented Sep. 20 1870



V. Bolis.

Cultivator Plow.

No. 107764. Patented Sept. 27, 1870.

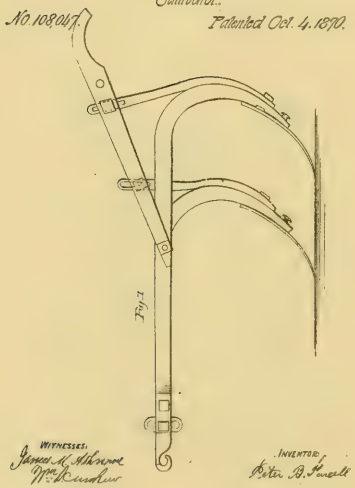


2 Sheets Sheet. 1

P. B. Parcell,

Cultivator.

No. 108047. Patented Oct. 4. 1870.

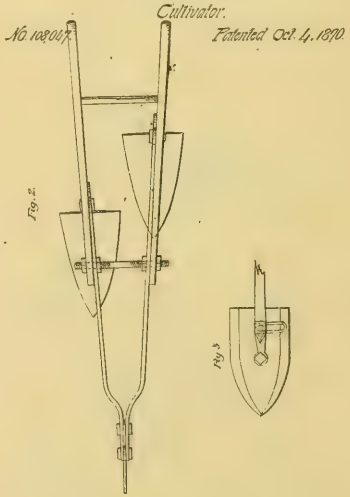


2 Sheets Sheet. 2

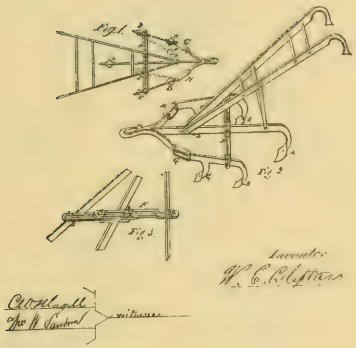
P. B. Parcell,

Cultivator.

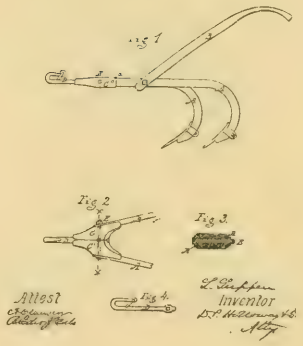
No. 108047. Patented Oct. 4. 1870.



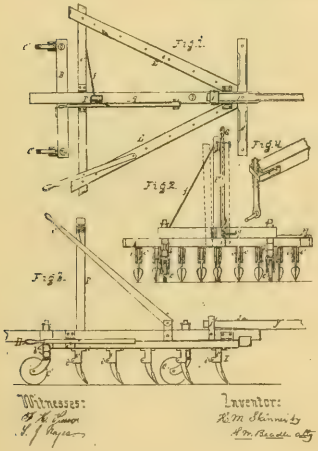
W. C. Clifford,
Cultivator.
No. 108659. Patented Oct. 11. 1870.



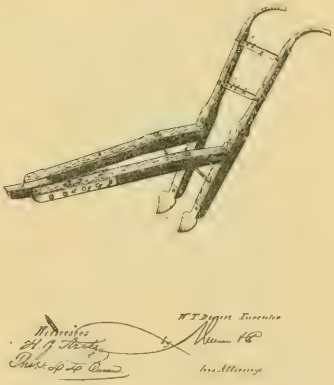
I. Lippman,
Cultivator.
No. 108873. Patented Oct. 11. 1870.



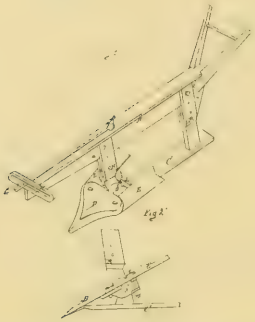
H. M. Skinner,
Cultivator.
No. 108398. Patented Oct. 18. 1870.



W. T. Burr,
Plow.
No. 108466. Patented Oct. 18. 1870.



C. Whitlock,
Cultivator.
No. 108741. Patented Oct. 25. 1870.



Witnesses
C. F. Quist.
E. D. Murray

Inventor
Cyprus Whitlock
by John F. Whitlock Attorney
for
Alexander Dunlaby
Atty

E. G. & A. D. Powell, S. N. Rice & S. M. Seely,
Cultivator.
No. 108934. Patented Nov. 1. 1870.

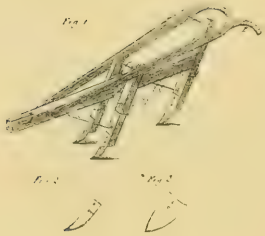
FIG. I

FIG. II

WITNESS
S. Pentz Cox
William Horton

INVENTORS
Elijah G. Powell
Alonzo D. Powell
James N. Rice
Samuel M. Seely
By Dodge & Sedgwick
their Attorneys

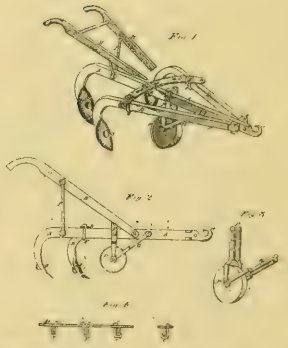
No. 108951. Patented Nov. 1. 1870.



Witnesses:
H. J. Hopkins
H. D. Allen

Inventors
John A. Nutter
Eli Buchanan
Per Munn & Co
Attorneys.

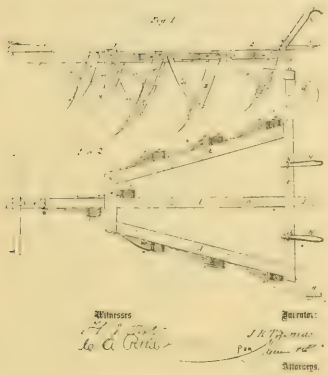
J. Rohman,
Cultivator
No. 109247. Patented Nov. 15. 1870.



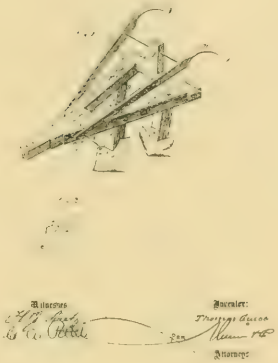
Witnesses
W. B. Mabie
Jacob Scheffer

Inventor
John Rohman

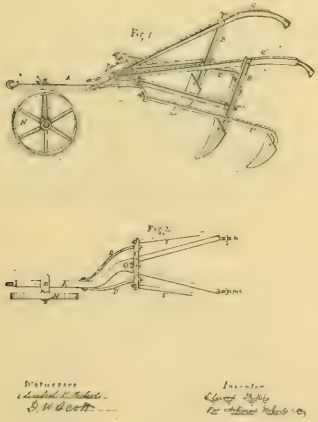
T. T. Thomas,
Cultivator.
No. 109558. Patented Nov. 29. 1870.



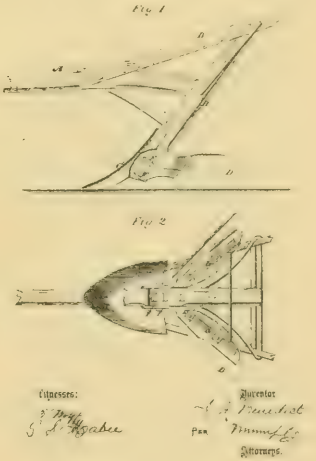
T. Orton,
Gang Plow
No. 109830 Patented Dec. 6. 1870.



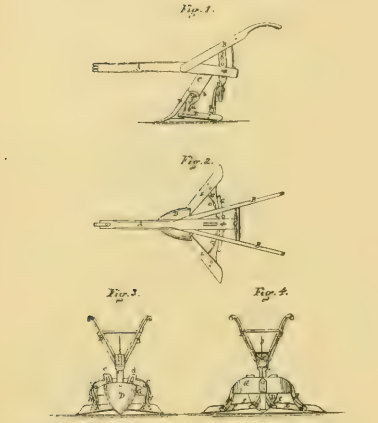
E. Phillips,
Cultivator
No 109934. Patented Dec. 6. 1870.



L. A. Fenelet,
Sheet Plow.
No 109.626 Patented Nov. 15. 1870.



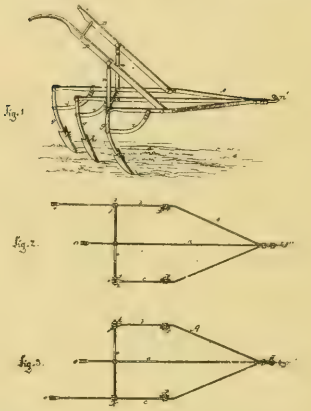
J. Sattison,
Cultivator.
No. 119,082. Patented Jan. 3, 1871.



Inventor.
Jacob Sattison
by Dewey & Co.
Attys.

Witnesses.
H. A. Jennings
A. B. Humphrey 2d.

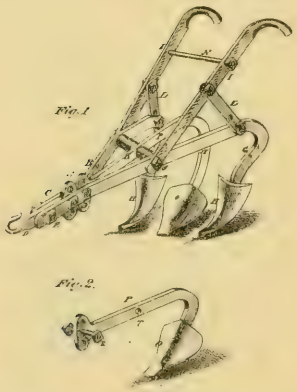
W. B. Reed.
Cultivator.
No. 111,250. Patented Jan. 24, 1871.



Witnesses:
Rich. S. Dodge
Henry Fellgett

Inventor:
Wm. B. Reed.
by Dodge & Munn
Attys

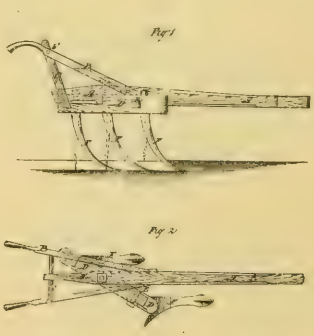
R. P. Van Horne,
Cultivator.
No. 111,793. Patented Feb. 14, 1871.



Witnesses:
Geo. Dennis
Edward Mertz

Inventor:
R. P. Van Horne
Per Munn & Co
Attorneys.

W. Gower,
Cultivator.
No. 111,925. Patented Feb. 21, 1871.



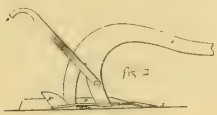
Witnesses:
C. Roetter
L. J. Babie

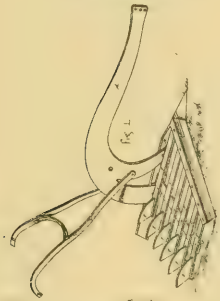
Inventor:
W. Gower
Per Munn & Co
Attorneys.

T. P. Newgart,

Cultivator.

No. 112,130. Patented Feb. 28, 1871.





Witnesses. Inventor.

O. H. Brewer. Frank Phillips Newgart

Samuel Jacob Wallace

D. Mosely,

Cultivator.

No. 112,681. Patented Mar. 7, 1871.

Fig. 1.

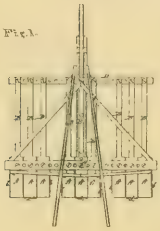
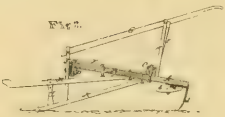


Fig. 2.



Witnesses. Inventor.

Chas. Kingsley D. Mosely

Atty. Pa. per Fenner & Co.

Atty.

H. Haney,

Sod Plow.

No. 113,096. Patented Mar. 28, 1871.

Fig. 1.

Fig. 4.

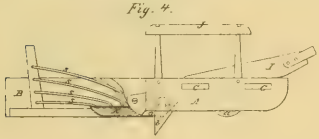


Fig. 2.

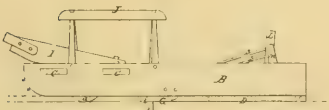
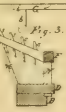


Fig. 3.



Witnesses. Inventor.

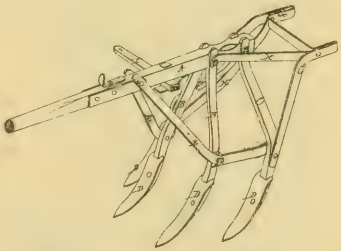
A. S. Park. Hamilton Haney.

E. J. Park. Lacey & Park.

B. W. & H. T. Renny,

Corn Plow.

No. 113,206. Patented Mar. 28, 1871.



Witnesses. Inventors.

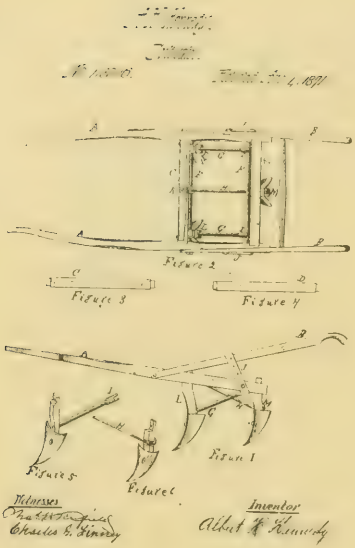
Henry Henry Benjamin W. Renny

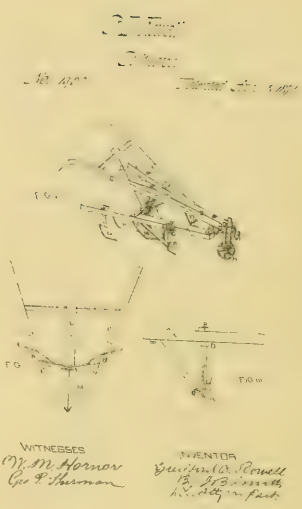
C. L. Quirt Frank T. Renny

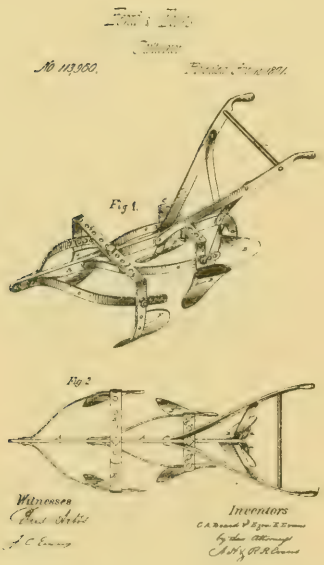
per

Alexander Mason

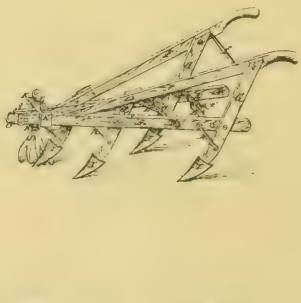
Atty.



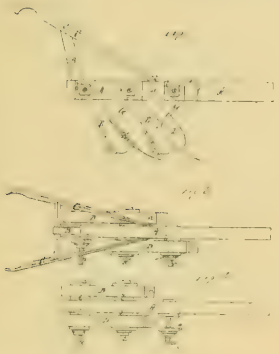




I. N. PYLE.
Improvement in Cultivators.
No. 114,040. Patented April 25, 1871.



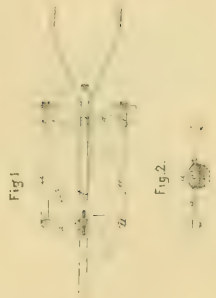
A. L. W. STROUD.
Improvement in Plows.
No. 114,221. Patented April 25, 1871.



Witnesses
A. A. Hopkins
A. L. Court.

Inventor
Andrew J. A. Stroud
per
Alexander Thomson
Atty

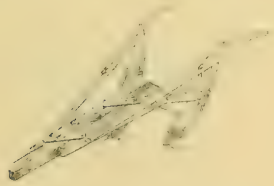
M. R. SHALTERS
Improvement in Plows.
No. 114,611 Patented May 9, 1871.



Witnesses
C. C. Brown
M. E. Colon.

Inventor
Moses R. Shalters by
Geo. C. Dodge
Atty

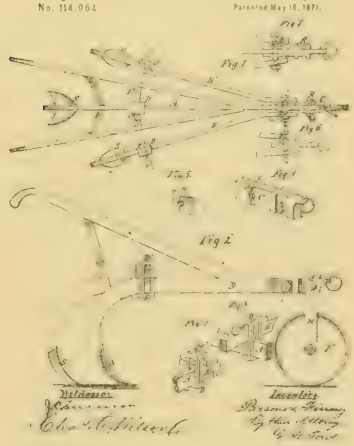
L. S. TEWELL.
Improvement in Cultivator-Plows.
No. 114,726. Patented May 9, 1871.



Witnesses
A. L. Court
A. A. Hopkins

Inventor
Leonard S. Tewell
per
Alexander Thomson
Atty

G. W. PARSONS & W. S. FINNEY.
Improvement in Cultivators and Shovel-Plows.
No. 114,964 Patented May 16, 1871.



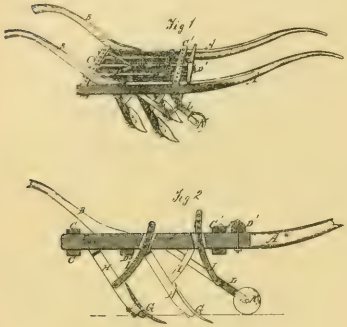
Witnesses
Chas. E. Wilcox

Inventors
Parsons & Finney
by their Atty
G. C. Dodge

T. E. C. BRINLY.

Improvement in Cultivators.

No. 116,147. Patented June 20, 1871.

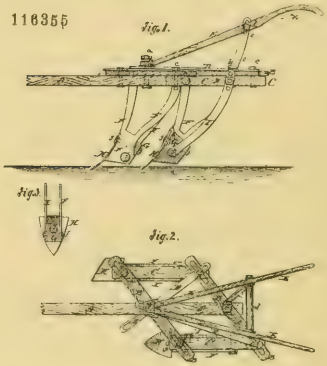


Witnesses.
Edw. Lefferd
A. Richard

T. E. C. Brinly,
Inventor.
D. Wilkinson & Co.
Atty

A. Roden, Plow. Patented Jun 27 1871

116355



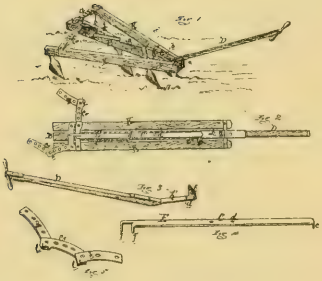
Witnesses:
J. Thompson Jr.
D. T. Maber

Inventor:
A. Roden
Per Munn & Co
Attorneys.

F. O. BALDWIN.

CULTIVATOR

117034 Patented Jul 18 1871



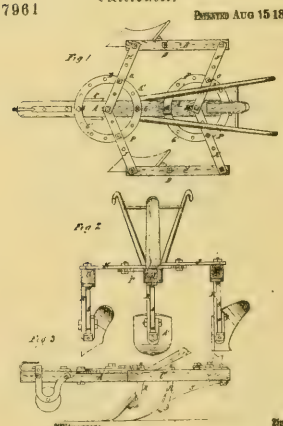
Attest
Frank McCourtney
J. Jones Jr. Clark

Inventor
F. O. Baldwin
Per Munn & Co
Attys

W. J. Arrington.

Cultivator.

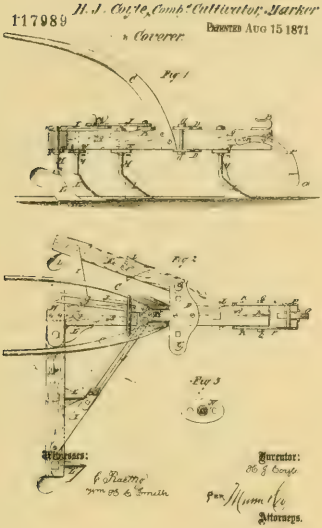
117961 Patented Aug 15 1871



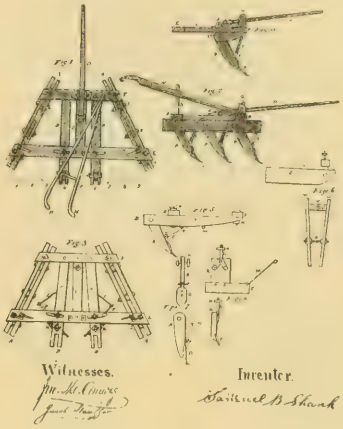
Witnesses:
H. J. Ashby
Mat. O. G. Parker

Inventor:
W. J. Arrington.
Per Munn & Co.
Attorneys.

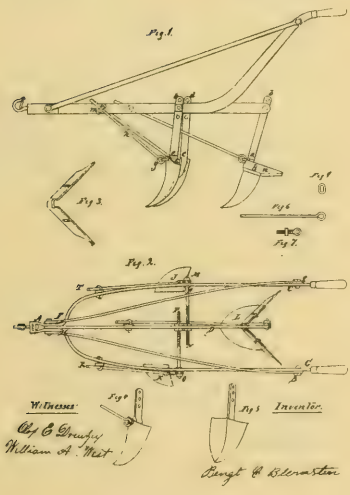
117989 H. J. Coyle, Comb.d Cultivator, Harker & Coverer. Patented Aug 15 1871



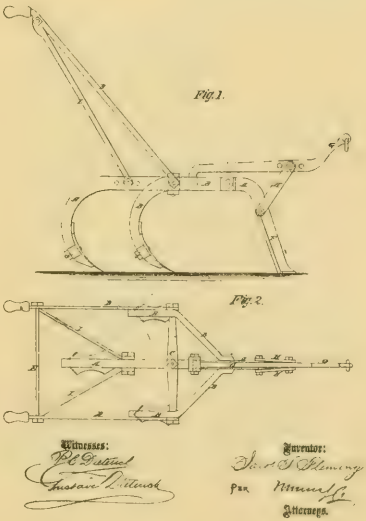
S. B. SHANK'S
Combinend Cultivator & Corn-Worker.
118159 Patented Aug 15 1871



B. C. Blomstens
Imp.d Cultivator.
118186 Patented Aug 22 1871



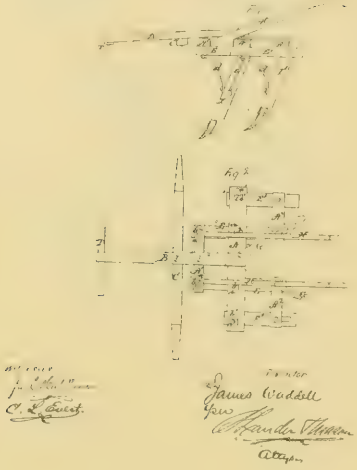
[84.] JACOB S. FLEMING.
Improvement in Cultivators.
No. 118,522. Patented Aug. 29, 1871.



JAMES WADDELL.

Improvement in Cultivators.

No. 119,206. Patented Sep. 19, 1871.



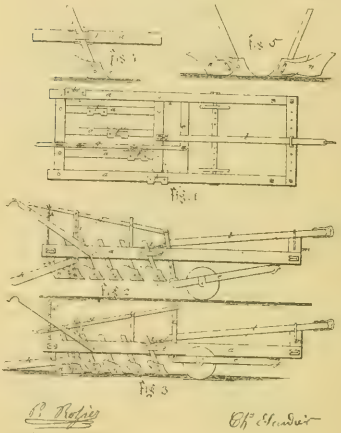
Witnesses: C. L. Smith

Inventor: James Waddell, per Saml. Thomson, Atty.

Chas. Escudier,

Cultivator

No. 119,588. Patented Oct. 3, 1871.

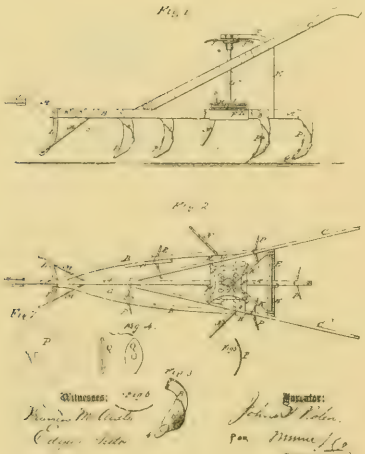


Witnesses: P. Robie, Chas. Escudier

JOHN S. NOLEN.

Improvement in Cultivators.

No. 119,639. Patented Oct. 3, 1871.



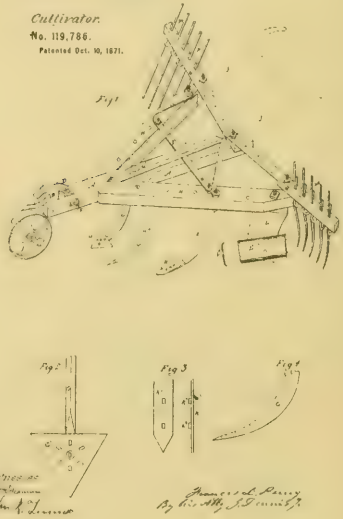
Witnesses: Winnie M. Curtis, Edwin Foster

Inventor: Johnson S. Nolen, per Munn & Co. Attorneys.

FRANCIS L. PERRY.

Cultivator.

No. 119,786. Patented Oct. 10, 1871.



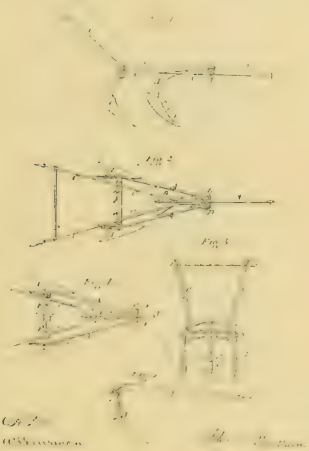
Witnesses: Wm. H. Lemmon, Chas. H. Lemmon

Francis L. Perry, By his Atty. J. Dennett

JOHN T. BRITTAIN.

Improvement in Cultivators.

No 120,028. Patented Oct. 17, 1871.



A. C SMITH

Cultivator.

No. 120,113. Patented Oct. 17, 1871.

A. C. SMITH.

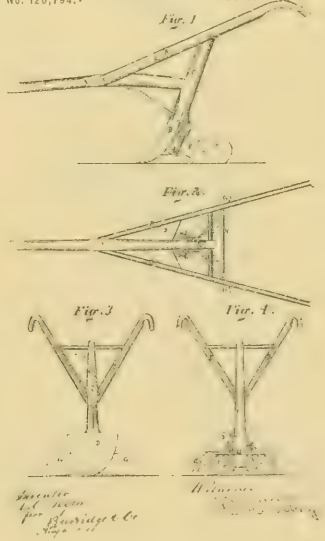
Cultivator.

No. 5,547. Reissued August 19, 1873.

A. C. TAYLOR.

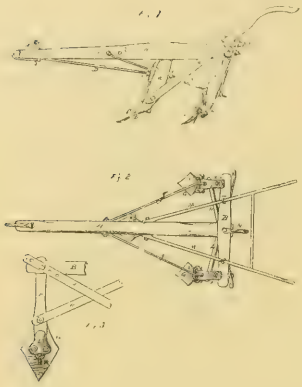
Cultivator.

No. 120,794. Patented Nov. 7, 1871.



J. W. BLAKE

No. 121,228 Patented Nov. 28, 1871.



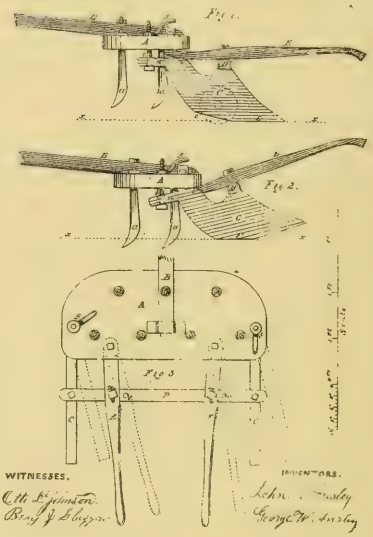
Witnesses:
D. K. Ellsworth
A. M. Rawlings.

Inventor
J. W. Blake
By Hill Tillinghast
Attorney.

JOHN ANSLEY & GEORGE W. ANSLEY.

Improvement in Cultivators.

No. 121,267. Patented Nov. 28, 1871.



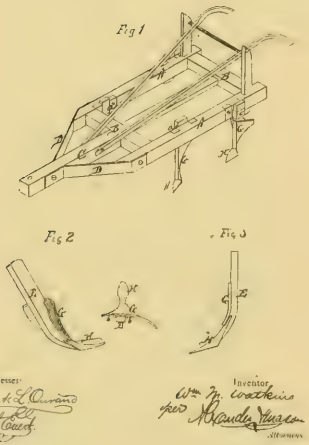
WITNESSES.
Ch. L. Johnson
Benj. F. Sleppa

INVENTORS.
John Ansley
George W. Ansley

WILLIAM M. WATKINS.

Improvement in Cultivators.

No. 121,439. Patented Nov. 28, 1871.



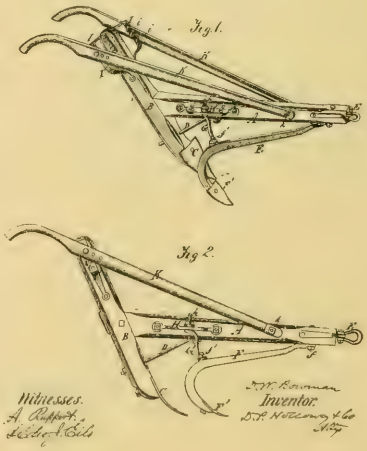
Witnesses:
Francis L. Durand
J. L. Card

Inventor
Wm. M. Watkins
per
Munn & Co.
Attorneys

D. W. BOWMAN.

Improvement in Cultivators.

No. 121,484. Patented Dec. 5, 1871.

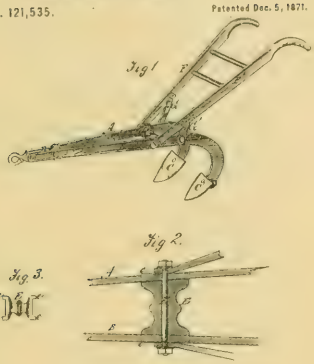


Witnesses.
A. Ruppert
Geo. A. Gill

D. W. Bowman
Inventor.
Dyer Holloway & Co
Atty

T. MEIKLE
SHOVEL PLOW.

No. 121,535. Patented Dec. 5, 1871.



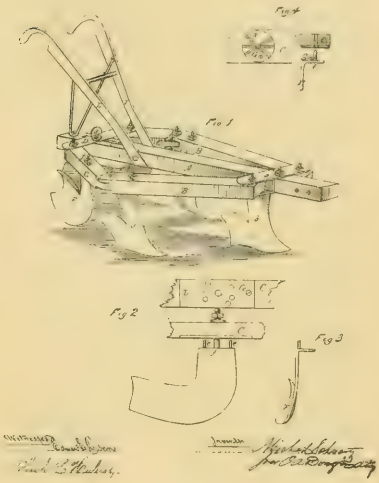
Witnesses
H. C. Spencer
R. C. Long Gill

T. Meikle
Inventor.
D. P. Holloway & Co
Attys

M. SCHWARTZ.

Improvement in Cultivators

No. 123,128. Patented Jan. 30, 1872.



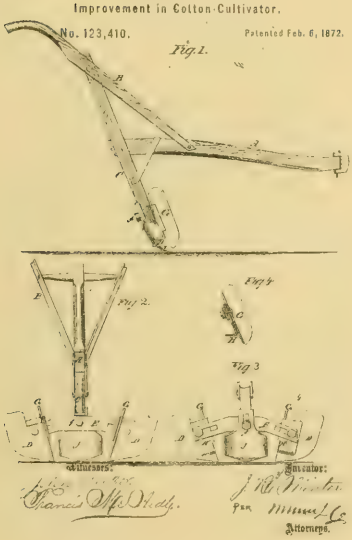
Witnesses
Edward Lyons
Frank L. Hickey.

Inventor
Michael Schwartz
per D. A. Longsdorf

JOHN R. MINTER.

Improvement in Cotton-Cultivator.

No. 123,410. Patented Feb. 6, 1872.



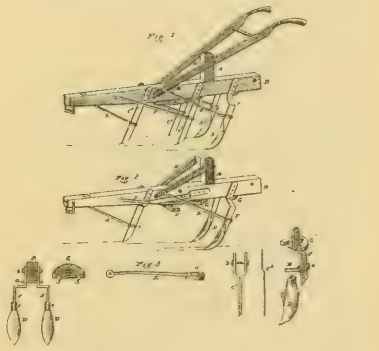
Witnesses:
Francis Mfs Medly

Inventor:
J. R. Minter
per Munn & Co.
Attorneys.

S. C. SHELLER.

Improvement in Cultivators.

No. 123,583. Patented Feb. 13, 1872.



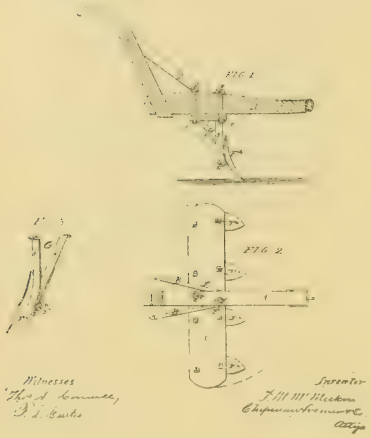
Witnesses.
M. Dreibach
Daniel Shafer

Inventor.
S. C. Sheller

F. M. McEEKIN.

Improvement in Plows.

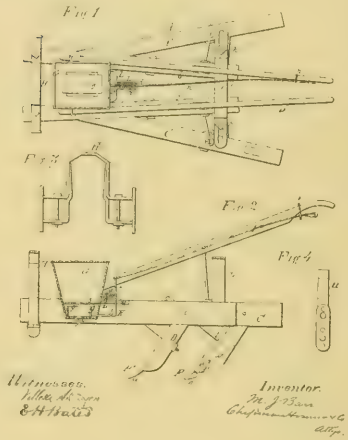
No. 123,717. Patented Feb. 13, 1872.



M. J. BARR.

Improvement in Cultivators.

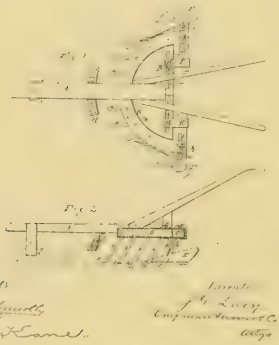
No. 124,316. Patented March 5, 1872.



J. G. LACY.

Cultivator and Potato Digger.

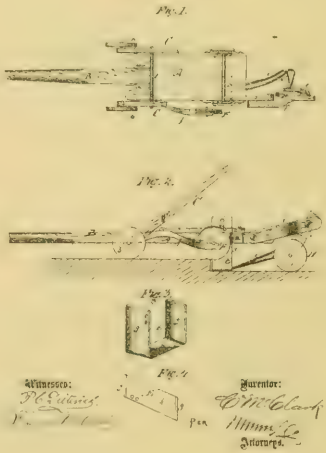
No. 125,057. Patented March 26, 1872.



C. M. CLARK.

Improvement in Cultivators.

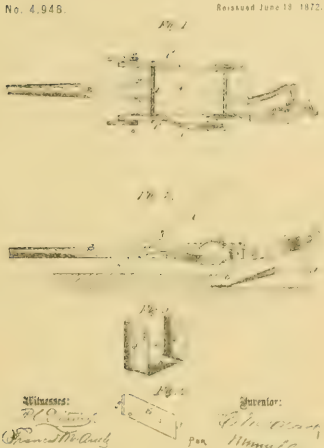
No. 125,936. Patented April 23, 1872.



C. M. CLARK

Improvement in Prairie-Plow

No. 4,946. Reissued June 18, 1872.



JOHN BERMAN

Improvement in Cultivators.

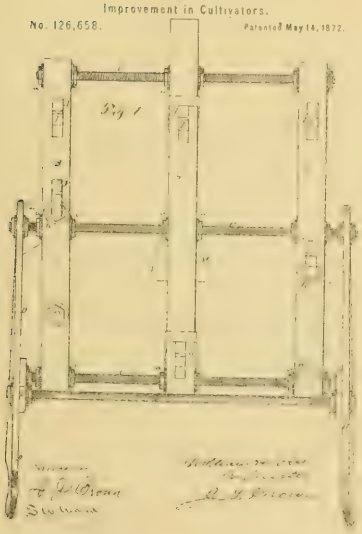
No. 126,412. Patented May 7, 1872.

WILLIAM H. VICK.

4 Sheets—Sheet 1.

Improvement in Cultivators.

No. 126,658. Patented May 14, 1872.

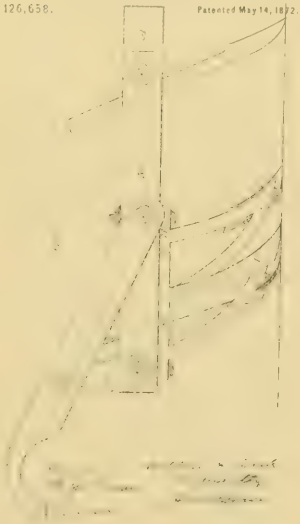


WILLIAM H. VICK.

4 Sheets—Sheet 2.

Improvement in Cultivators.

No. 126,658. Patented May 14, 1872.

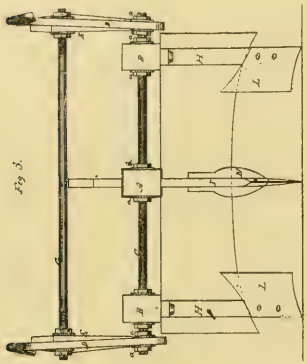


4 Sheets—Sheet 3.

WILLIAM H. VICK.

Improvement in Cultivators.

No. 126,658. Patented May 14, 1872.



Witnesses
D. J. Brown
D. W. Wood

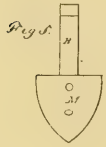
William H. Vick,
By his Attorney,
J. S. Brown

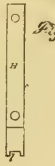
4 Sheets—Sheet 4.

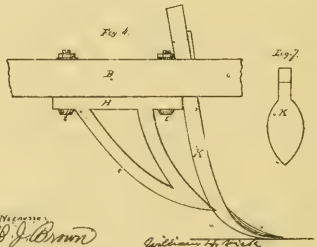
WILLIAM H. VICK.

Improvement in Cultivators.

No. 126,658. Patented May 14, 1872.







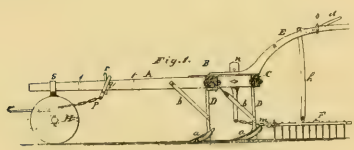
Witnesses
D. J. Brown
D. W. Wood

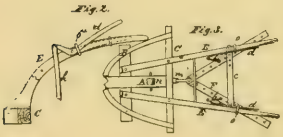
William H. Vick,
By his Attorney,
J. S. Brown

WILLIAM KLEFFEL.

Improvement in Cultivators.

No. 126,815. Patented May 14, 1872.





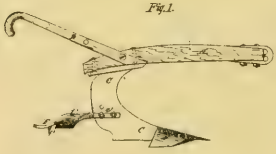
Witnesses
Wm. Kleffel
W. Leary

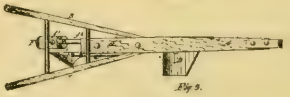
Inventor.
William Kleffel
By attorney
C. F. Jones

A. B. SPRINGSTEEN.

Improvement in Cultivators.

No. 126,991. Patented May 21, 1872.





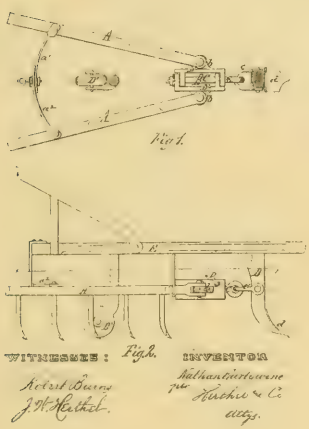
Witnesses:
C. C. Gerard
Las. M. Meabee

Inventor:
A. B. Springsteen
per Munn & Co.
Attorneys.

N. EARLYWINE.

Improvement in Cultivators.

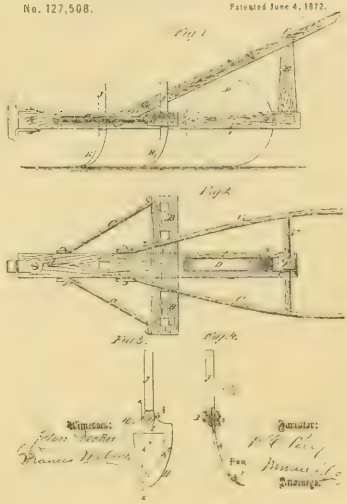
No. 127,469. Patented June 4, 1872.



WILLIAM C. PERCY.

Improvement in Cultivators.

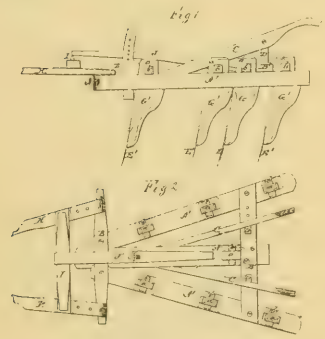
No. 127,508. Patented June 4, 1872.



GEORGE STIBER.

Improvement in Cultivators.

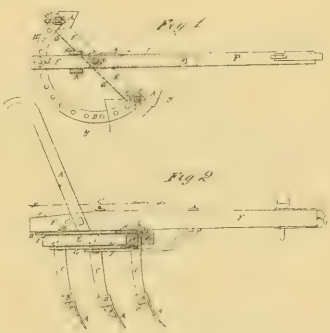
No. 127,858. Patented June 4, 1872.



G. G. FOREMAN.

Improvement in Plows.

No. 128,032. Patented June 18, 1872.

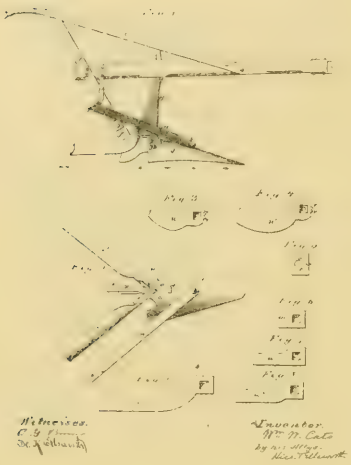


2 Sheets--Sheet 1.

W. W. CATO

Improvement in Cultivators.

No. 128,360. Patented June 25, 1872.



2 Sheets--Sheet 2

W. W. CATO

Improvement in Cultivators.

No. 128,360. Patented June 25, 1872.

M. D. KING.

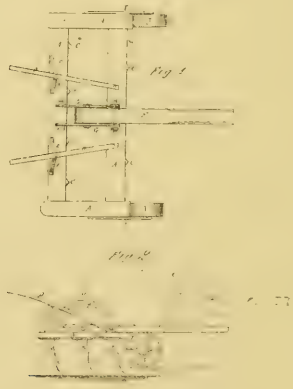
Improvement in Cultivators.

No. 128,734. Patented July 9, 1872.

F. W. TOLLEY.

Cultivator.

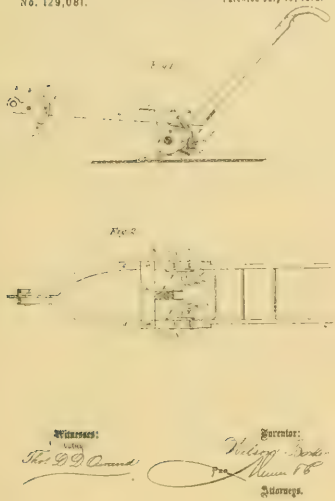
No. 128,827. Patented July 9, 1872.



W. BAKER.

Improvement in Cotton-Cultivators.

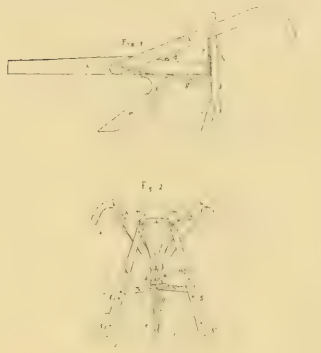
No. 129,081. Patented July 18, 1872.



J. B. LANG

Improvement in Cultivators.

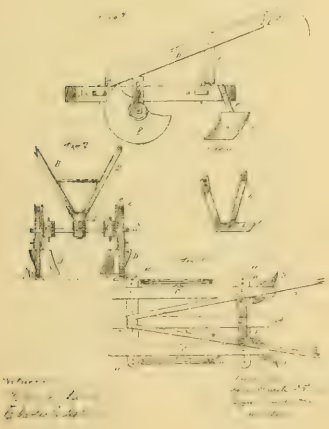
No. 129,894. Patented July 30, 1872.



C. MARSH, 2nd.

Improvement in Cultivators.

No. 130,384. Patented Aug. 13, 1872.



B. J SVENSON.

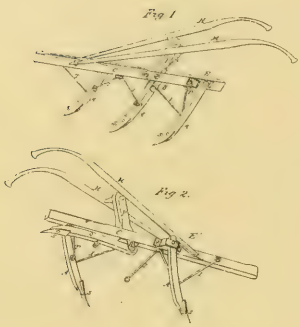
Improvement in Cultivators

No. 130,765. Patented Aug. 20, 1872.

G. D. CLEAVELAND.

Improvement in Cultivators

No. 131,150. Patented Sep. 10, 1872.



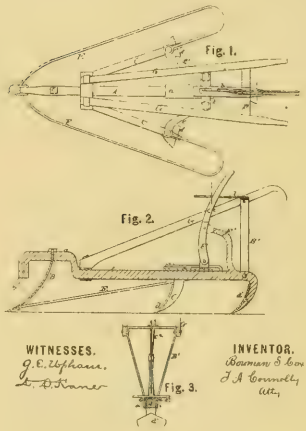
Witnesses:
Geo. W. Brown
William E. Worthy

Inventor:
George D. Cleaveland

B. S. COX.

Improvement in Cultivators.

No. 132,201. Patented Oct. 15, 1872



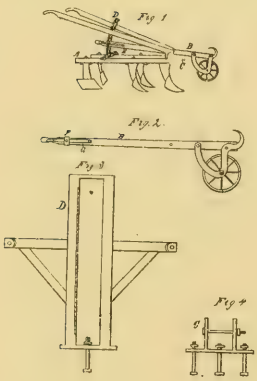
WITNESSES.
J. E. Upham.
G. D. Kamer

INVENTOR.
Bauman S. Cox
J. A. Connolly
Att.

G. JESSUP.

Improvement in Cultivators.

No. 132,764. Patented Nov. 5, 1872.



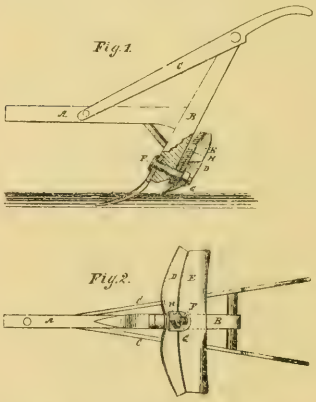
Witnesses.
John L. Lewis
Charles Hotchkiss

Inventor.
Gilbert Jessup

W. BROOKS.

Improvement in Cultivators.

No. 132,796. Patented Nov. 5, 1872.



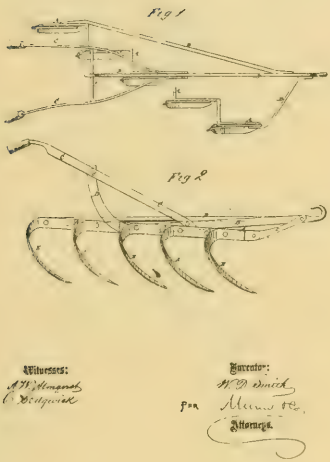
Witnesses:
J. Watkins
G. A. Pond

Inventor:
Wm. Brooks
per Munn & Co.
Attorneys.

W. D. SMITH.

Cultivators.

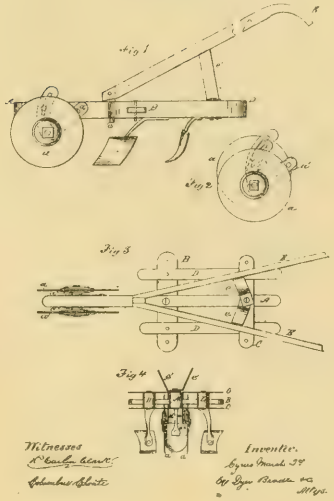
No. 133,387. Patented Nov. 26, 1872.



C. MARSH, 2d.

Cultivators.

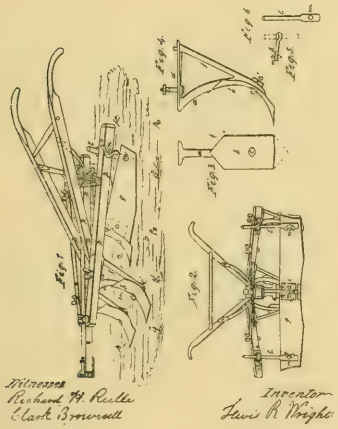
No. 133,467. Patented Nov. 26, 1872.



L. R. WRIGHT.

Cultivators and Plows.

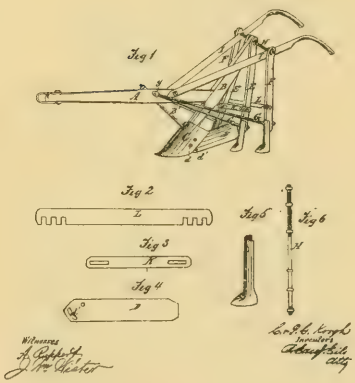
No. 133,614. Patented Dec. 3, 1872.



C. KROGH & P. G. KROGH.

Cultivators.

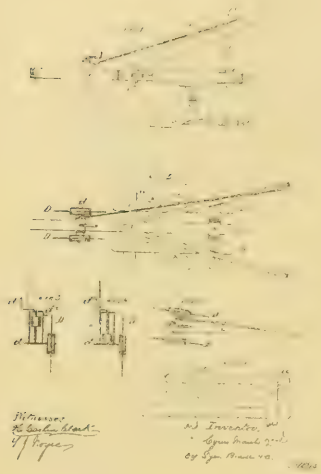
No. 133,865. Patented Dec. 10, 1872.



C. HARSH, 2d.

Cotton-Scraper.

No. 134,080. Patented Dec. 17, 1872.

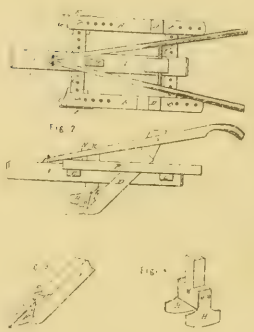


F. REESE.

Cultivators.

No. 134,099. Patented Dec. 17, 1872.

Fig. 1.



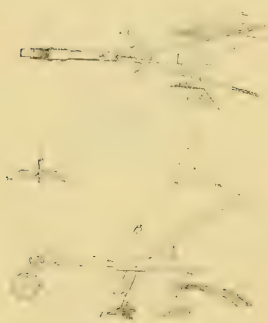
Witnesses:

Inventor:

E. D. REYNOLDS & O. E. REYNOLDS.

Cultivators.

No. 134,166. Patented Dec. 24, 1872.



J. M. HEIGES.

Cultivators.

2 Sheets--Sheet 1

No. 134,665. Patented Jan. 7, 1873

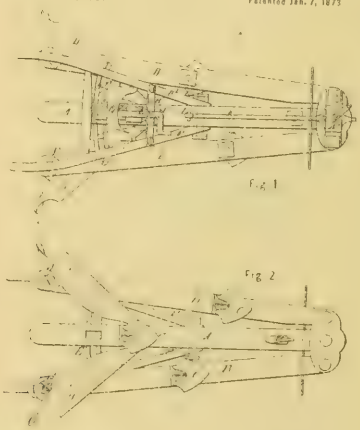


Fig. 1

Fig. 2

WITNESSES.

INVENTOR.

2 Sheets--Sheet 2

J. M. HEIGES.
Cultivators.

No. 134,605. Patented Jan. 7, 1873.

WITNESSES.

INVENTOR.

R. G. HOBSON.
Plows.

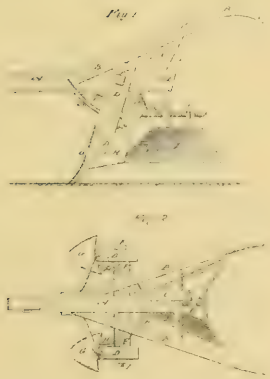
No. 134,670 Patented Jan. 7, 1873

Witnesses:

Inventor
R. G. Hobson
by his Attys

J. TWEEDY.
Cultivators.

No 135,301 Patented Jan. 28, 1873.



Witnesses:

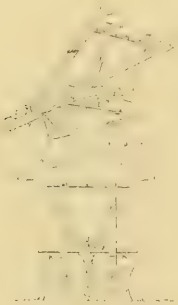
Inventor:

Per

Attorneys.

I. EMRICK.
Corn-Cultivators.

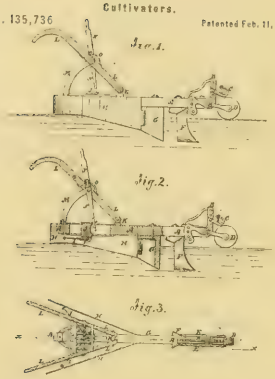
No. 135,414. Patented Feb. 4, 1873



Witnesses:

Inventor

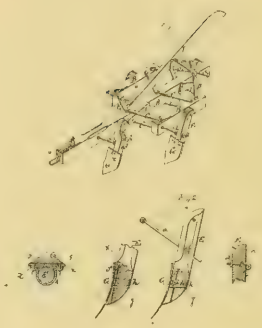
W. TAYLOR.
Cultivators.
No. 135,736 Patented Feb. 11, 1873.



Witnesses:
A. Bonnemann Jr.
W. Siegrist

Inventor:
W. Taylor
per Munn & Co
Attorneys.

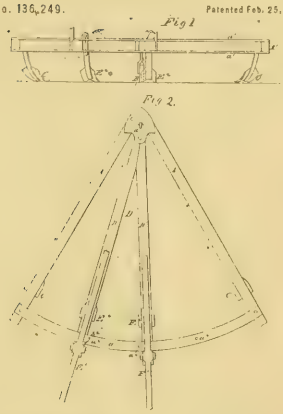
B. WITTER.
Cultivators.
No. 135,872. Patented Feb. 11, 1873



Witness:
Jos. B. Hutchinson
C. L. Burt.

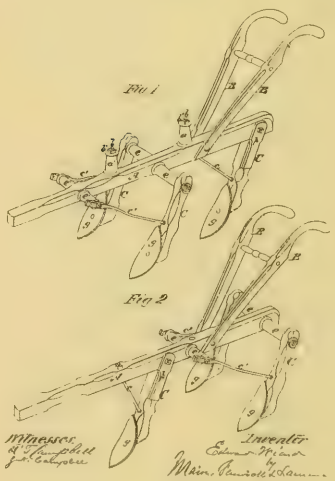
Inventor
Benjamin Witter
per
Wm. Pennie & Co
Attorneys

H. K. KRIEBLE.
Cultivators.
No. 136,249. Patented Feb. 25, 1873.



Witnesses,
Inventor
Attys.

E. WIARD.
Cultivators.
No. 136,574. Patented March 4, 1873
2 Sheets—Sheet 1.



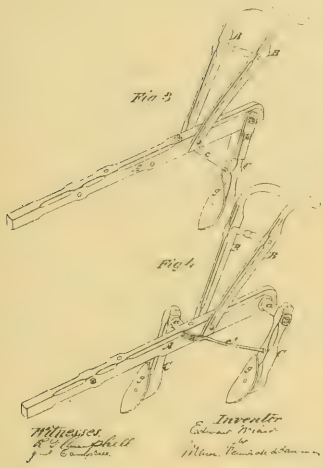
Witnesses
Inventor
Edwin Wiard
by
Munn, Pennie & Co

2 Sheets--Sheet 2

E. WIARD.

Cultivators.

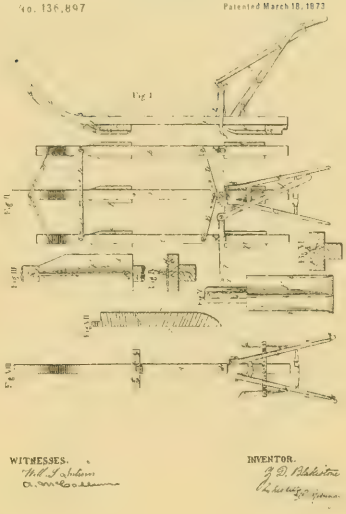
No. 136,574 Patented March 4, 1873.



Z. D. BLAKISTONE.

Tobacco-Hillers.

No. 136,897 Patented March 18, 1873



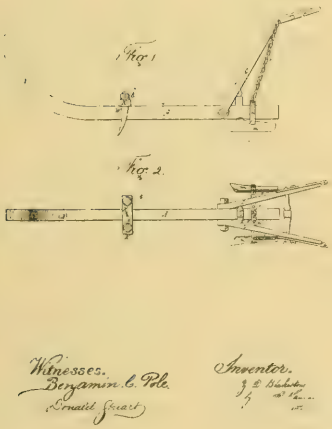
WITNESSES.

INVENTOR.

Z. D. BLAKISTONE.

Tobacco-Cultivators.

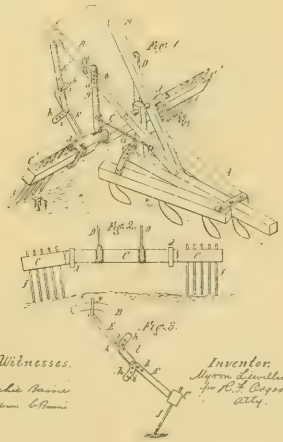
No. 136,898. Patented March 18, 1873



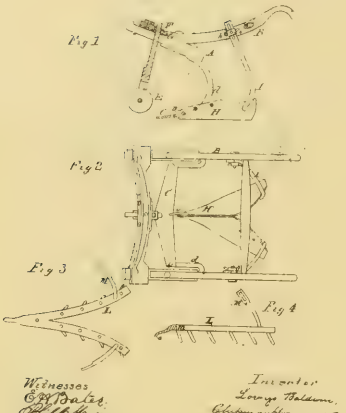
M. LEWELLIN.

Cultivators.

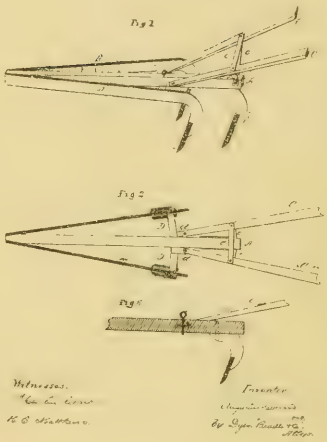
No. 137,221. Patented March 25, 1873.



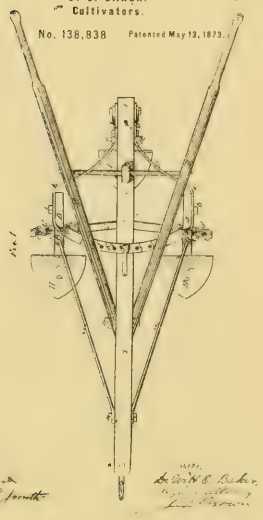
L. BALDWIN.
Cultivators.
No. 137,649 Patented April 8, 1873



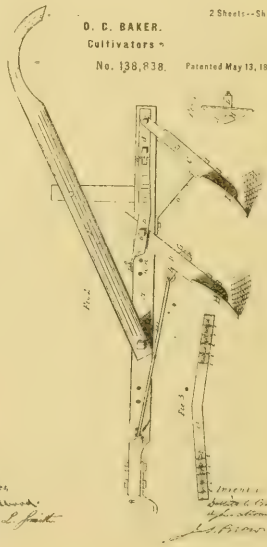
A. LEONARD.
Cultivators.
No. 137,782. Patented April 15, 1873



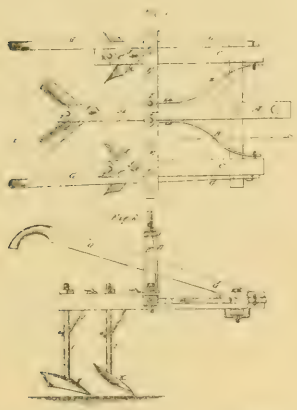
D. C. BAKER.
Cultivators.
No. 138,838 Patented May 13, 1873.
2 Sheets--Sheet 1



D. C. BAKER.
Cultivators.
No. 138,838. Patented May 13, 1873.
2 Sheets--Sheet 2.



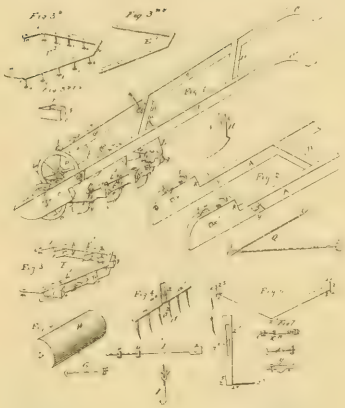
W. T. WALKER.
Cultivators.
No. 138,061. Patented May 13 1873



Witnesses
W. C. Sutcliffe
C. H. Sanford

Inventor.
W. T. Walker
Per Munn & Co
Attorneys.

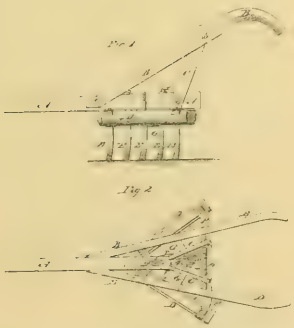
E. M. GRAHAM
Cultivators.
No. 139,001. Patented May 20, 1873



Witnesses
W. ed Dunnfeld
F. H. Ebermann

Inventor
E. M. Graham
by Edmund Christy
Attorney

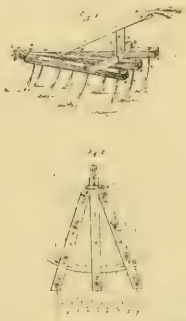
T. M. KING.
Harrows.
No. 139,065. Patented May 20, 1873



Witnesses.
E. F. Wolff
C. Sanford

Inventor.
T. M. King
Per Munn & Co
Attys

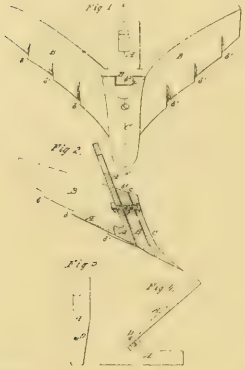
P. LONG
Cultivators.
No. 139,320 Patented May 27, 1873



Witnesses.
A. J. Stauffer
E. Metzger

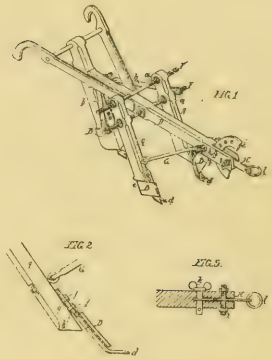
Inventor
Philip Long
per J. Stauffer Atty

C. ZOCHER
Cotton-Cultivators
No. 139,750 Patented June 10, 1873



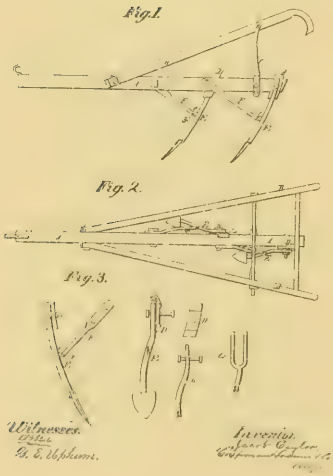
Witnesses:
Inventor:
Per
Attorneys.

C. F. MUSCHERT.
Cultivators.
No. 140,724. Patented July 8, 1873



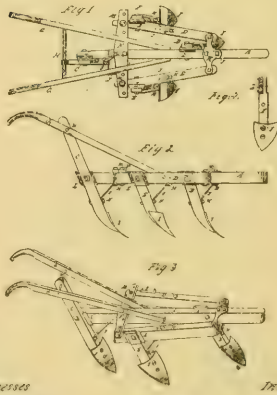
Witnesses.

J. CAYLOR.
Cultivators.
No. 140,885. Patented July 15, 1873.



Witnesses.

E. BRIGGS.
Cultivators.
No. 141,199. Patented July 29, 1873



Witnesses
Inventor
Ephraim Briggs

2 Sheets--Sheet 1.

F. ROY.

Sugar-Cane Coverers.

No. 141,464. Patented August 5, 1873.

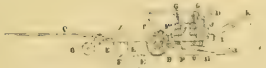


Fig. 1

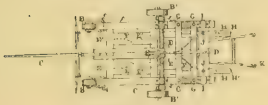


Fig. 2

Fig. 3.

Witnesses

Inventor.

2 Sheets--Sheet 2

F. ROY.

Sugar-Cane Coverers.

No. 141,464. Patented August 5, 1873.

Fig. 4

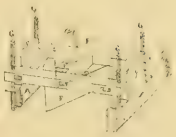


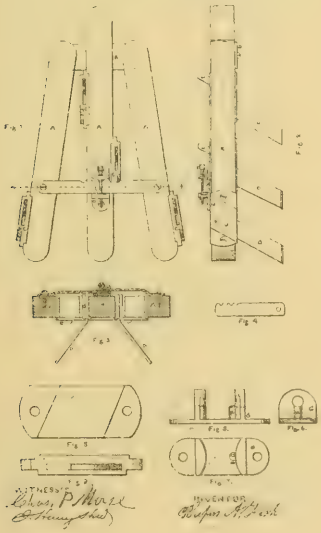
Fig. 5.

Witnesses.

Inventor.

R. A. FISH.---Cultivators.

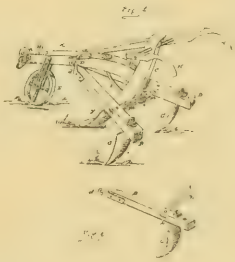
No. 141,707. Patented August 12, 1873.



A. SMITH.

Combined Shoval Plows and Cultivators.

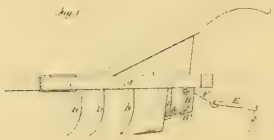
No. 142,655. Patented September 9, 1873.

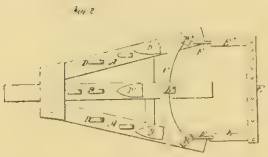


Witnesses.

Inventor

W. LEWIS
Cultivators
No. 143,019. Patented September 23, 1873

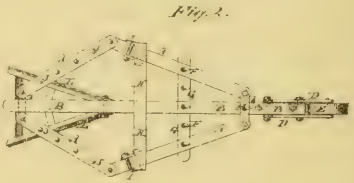




Witnesses
W. H. Pennel
M. Blunck

Inventor
W. Lewis
by his Attys
H. C. Ellsworth

F. PEREZ.
Cultivators.
No. 143,380. Patented September 30, 1873.



Witnesses.
John Becker
Chas. Hoyne

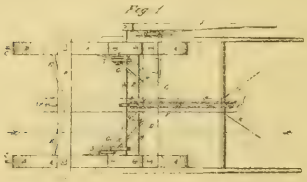
F. Perez
by his Attorneys
Rowland & Ellis

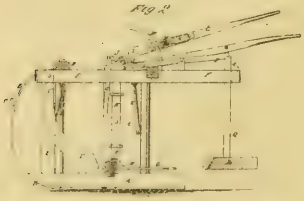
L. HAVERSTICK.
Cultivators.
No. 144,846. Patented Nov. 25, 1873.

Witnesses.
W. B. Pole
Jos. H. Pope

Inventor
Lev. Haverstick

H. VON PHUL, Jr. & J. MALLON.
Combined Stubble Shavers and Scrapers.
No. 144,933. Patented Nov. 25, 1873.

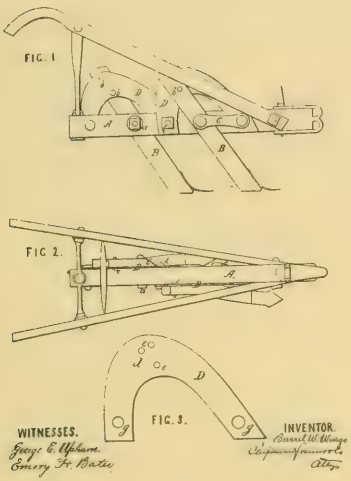




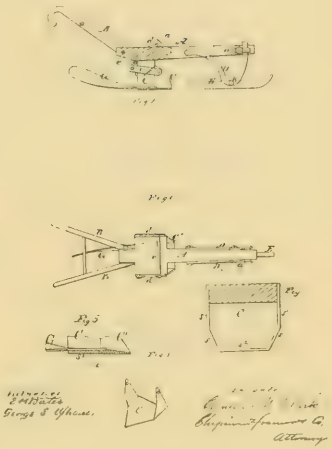
Witnesses.
A. W. Kingsford
C. Edgwick

Inventor.
H. von Phul Jr.
J. Mallon
Per J. Munn & Co.
Attorneys.

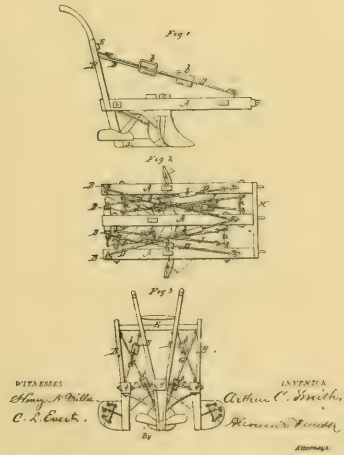
B. W. WINGO.
Cultivators.
No. 145,038. Patented Nov. 25, 1873.



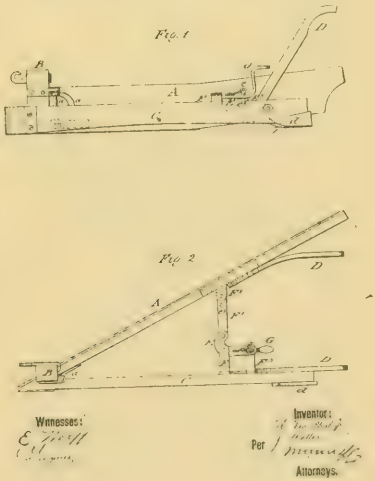
C. M. CLARK
Plows
No. 145,627. Patented Dec. 16, 1873.



A. C. SMITH.
Cultivators.
No. 145,591. Patented Dec. 16, 1873.

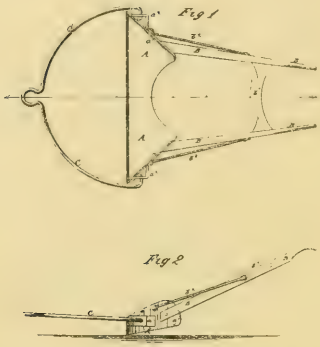


H. VON PHUL, Jr. & J. MALLON.
Sugar-Cane Cultivators.
No. 146,216. Patented Jan. 6, 1874.



F. G. THURSTON.
Furrow-Scrapers.

No. 146,848. Patented Jan. 27, 1874.

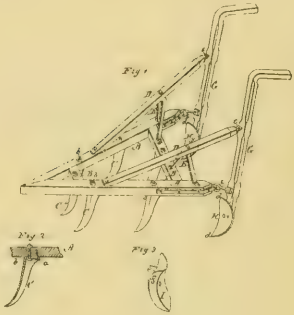


Witnesses:
A. W. Almgrove
Allen F. Roberts

Inventor:
F. G. Thurston
per Munn & Co
Attorneys.

J. B. RUMSEY.
Cultivators.

No. 146,952. Patented Jan. 27, 1874.

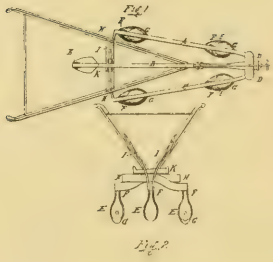


Witnesses.
G. T. Everts
James E. Ramsey

Inventor.
Jesse B. Ramsey

C. M. RISLEY & C. B. ROGERS.
Cultivators.

No. 147,068. Patented Feb. 3, 1874.

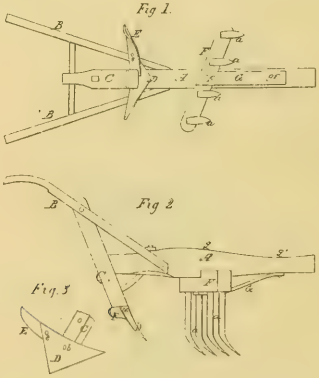


Witnesses
R. P. Dickey
Mary J. Doty

Inventors
Clayton M. Risley
Caleb B. Rogers

S. D. DOUTHIT.
Cultivators.

No. 147,616. Patented Feb. 17, 1874.

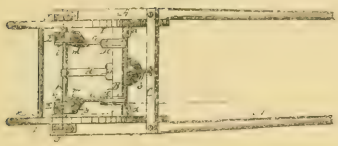


WITNESSES
Mary J. Doty
Robt. Smith

INVENTOR
Samuel D. Douthit
Chipman & Fennemore
ATTORNEYS

B. D. TABOR.
Cultivators.
No. 148,262. Patented March 3, 1874.

Fig. 1.



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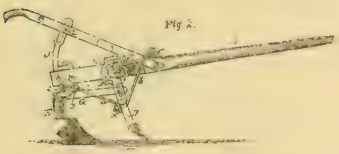


Witnesses:
J. C. Bulwich
G. Hussey Rev

Inventors:
B. D. Tabor
per F. H. Alexander
Attorney.

2 Sheets--Sheet 1.
H. H. PROUT.
Hoeing-Attachments.
No. 148 845. Patented March 24, 1874.

Fig. 1.

Fig. 2.

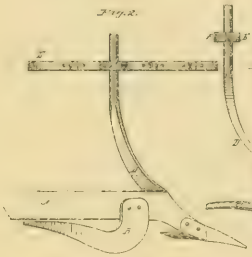


Fig. 3.

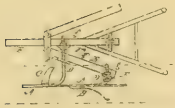
Witnesses
Alfred L. Deady
George H. Rose.

Inventor.
Horace H. Prout

2 Sheets--Sheet 2.
H. H. PROUT.
Hoeing-Attachments.
No. 148,845. Patented March 24, 1874.

Fig. 4

Fig. 5.



Witnesses:
Geo. H. Rose
Alfred L. Deady

Inventor;
Horace H. Prout

W. C. BELL.
Cultivating Plows.
No. 149,090. Patented March 31, 1874.

Fig. 1

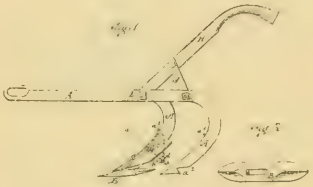


Fig. 2

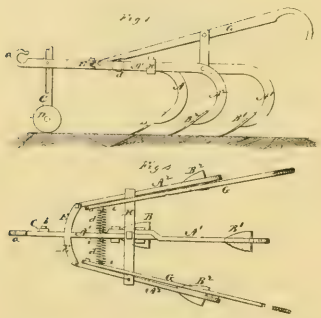
Fig. 3

WITNESSES:

INVENTOR:
W. C. Bell
BY
Munn & Co.
ATTORNEYS.

J. A. BARNETT
Corn-Plows.

No. 149,181. Patented March 31, 1874.

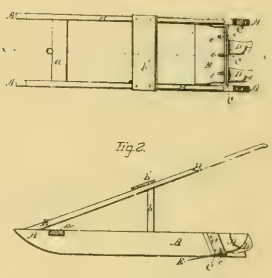


WITNESSES:
Thomas J. Crowell
C. L. Ernest.

INVENTOR
Joseph A. Barnett
Chandler & Hasson
Attorneys

W. H. CARTER.
Clay-Cutters.

No. 149 719 Patented April 14, 1874.

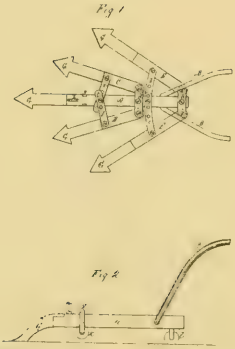


WITNESSES:
Jas. E. Hutchinson
John R. Young

INVENTOR.
Wallace H. Carter by
Prindle & Brown his
Attorneys

S. SEVERY.
Cultivators

No. 150,719. Patented May 12, 1874.

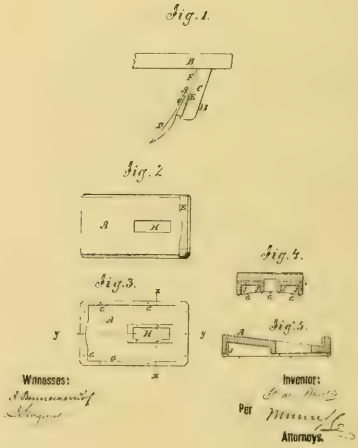


Witnesses
C. A. Shaw
H. E. Ketcof

Inventor
Solomon Severy

F. M. SHIELDS.
Plow Supporters.

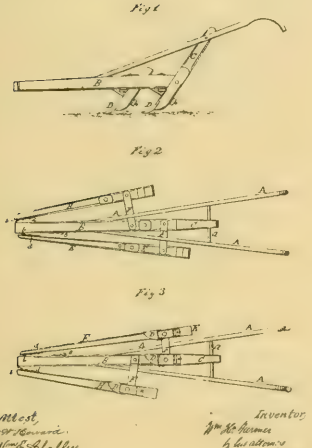
No. 151,549. Patented June 2, 1874.



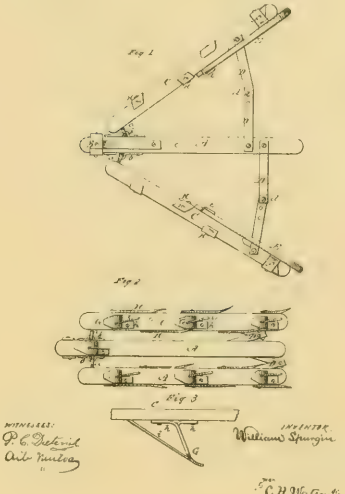
Witnesses:
J. Bonnemann
J. Hayes

Inventor:
F. M. Shields
Per Munn & Co.
Attorneys.

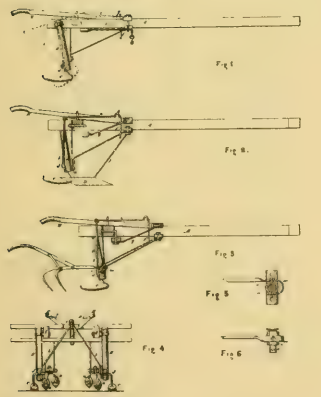
W. H. FARMER.
Cultivators.
No. 152,623. Patented June 30, 1874.



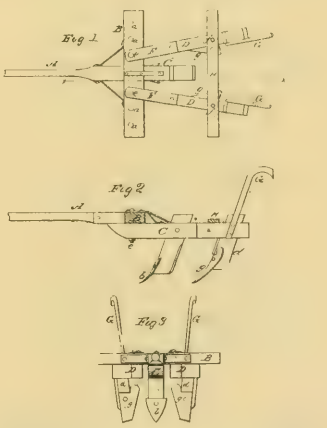
W. SPURGIN.
Combined Cultivators and Harrows.
No. 153,127. Patented July 14, 1874.



P. P. HILL.
Cultivators.
No. 153,168. Patented July 21, 1874.



D. D. LYNCH.
Cultivators
No. 153,586. Patented July 28, 1874.



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O. W. GOSLEE.

Cultivators and Ridgers.

No. 153,942. Patented Aug. 11, 1874.

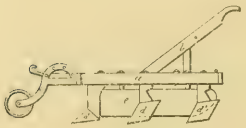
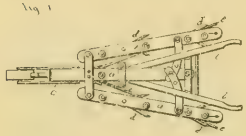


Fig 1



Witness.

H. E. Blakeslee

Jeremy W. Bliss

Inventor.

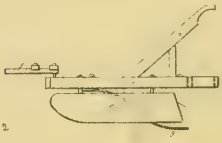
Orjino W. Goslee

2 Sheets--Sheet 2

O. W. GOSLEE.

Cultivators and Ridgers.

No. 153,942. Patented Aug. 11, 1874.



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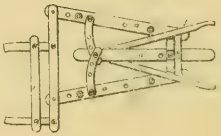


Witness.

H. E. Blakeslee

Jeremy W. Bliss

Inventor

Orjino W. Goslee

2 Sheets--Sheet 1

T. H. GARLAND.

Cultivators.

No. 156,847. Fig 1. Patented Nov. 17, 1874.

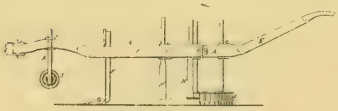


Fig 2

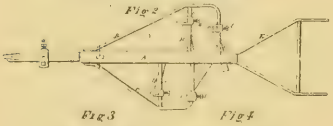


Fig 3

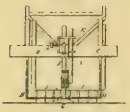
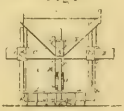


Fig 4



Witnesses

H. J. Bonnell

R. S. Stratton

Inventor.

Thomas H. Garland

Per Burridge & Co.

Attys.

2 Sheets--Sheet 2

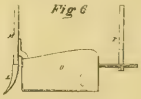
T. H. GARLAND

Cultivators

No. 156,847. Patented Nov. 17, 1874.

Fig 5

Fig 6



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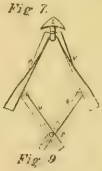


Fig 8.

Fig 9

Fig 10

Fig 11

Witnesses.

H. J. Bonnell

R. S. Stratton

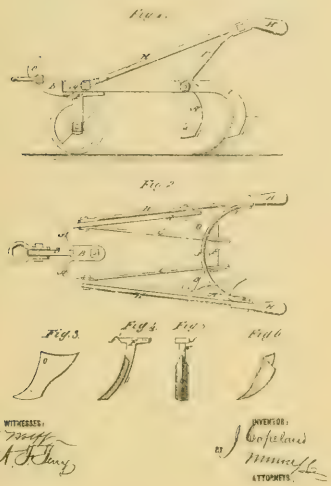
Inventor.

Thomas H. Garland

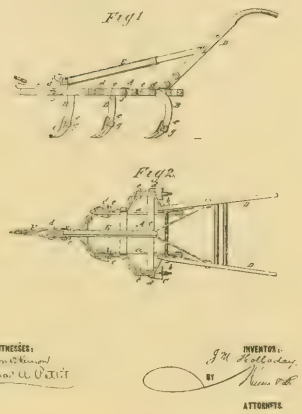
Per Burridge & Co.

Attys

J. CUPELAND.
Corn Coverers and Cultivators.
No. 157,196. Patented Nov. 24, 1874



J. M. HOLLADAY.
Cultivators.
No. 157,398. Patented Dec. 1, 1874.



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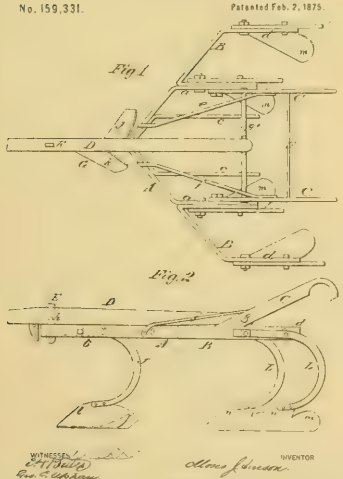
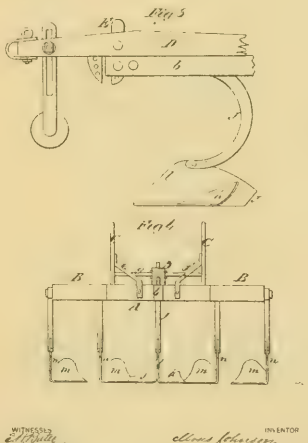
M. JOHNSON.
Cultivator.
No. 159,331. Patented Feb. 2, 1875.



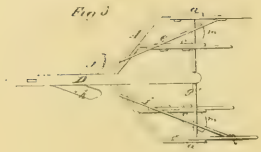
4 Sheets--Sheet 2
M. JOHNSON.
Cultivator.
No. 159,331. Patented Feb. 2, 1875.

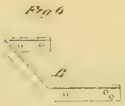


4 Sheets--Sheet 3

M. JOHNSON.
Cultivator.

No. 159,331 Patented Feb. 2, 1875





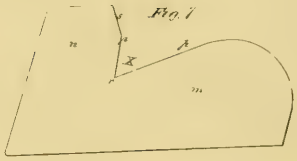
WITNESSES
T. H. Wright
George E. Upham

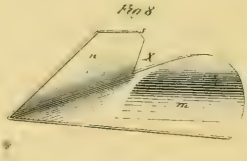
INVENTOR
Alex. Johnson
Chapman Hoomer & Co. ATTORNEYS

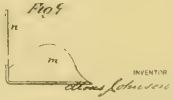
4 Sheets--Sheet 4

M. JOHNSON.
Cultivator.

No. 159,331 Patented Feb. 2, 1875





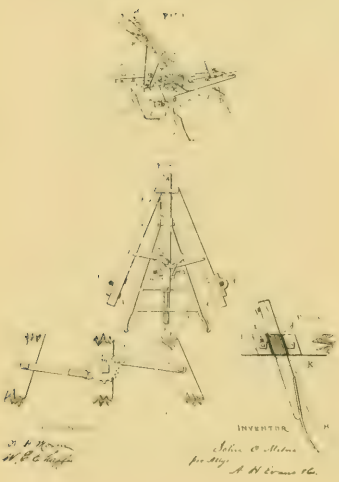


WITNESSES
E. H. Bills
Geo. E. Upham

INVENTOR
Alex. Johnson
Chapman Hoomer & Co. ATTORNEYS

J. O. MILNE.
Cultivator

No. 159,523 Patented Feb. 9, 1875.



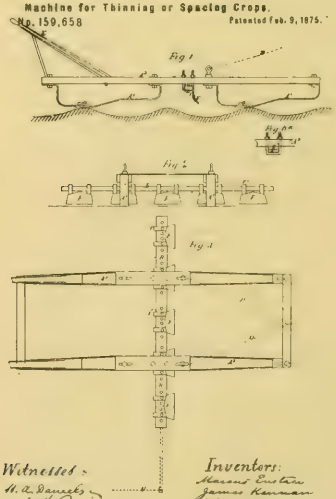
INVENTOR
John O. Milne
per Wm. A. H. Lemon Jr.

D. H. Norris
W. E. C. Hopkins

4 Sheets--Sheet 1.

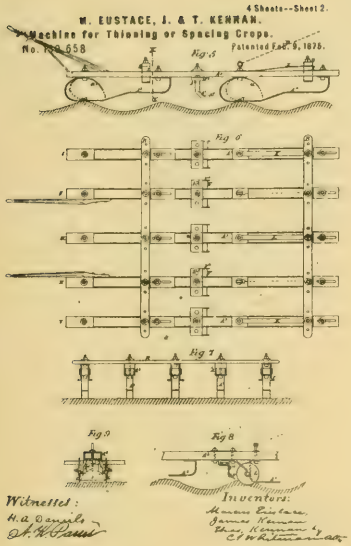
W. EUSTACE, J. & T. KENNAN.
Machine for Thinning or Spacing Crops.

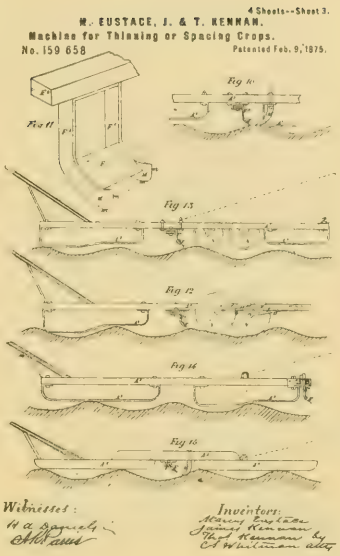
No. 159,658 Patented Feb. 9, 1875.



Witnesses:
H. A. Dancks
A. H. Parks

Inventors:
Warren Eustace
James Kennan
Thos. Kennan by
C. A. Whittemore Atty.


4 Sheets--Sheet 2.
M. EUSTACE, J. & T. KENNAN.
Machine for Thinning or Spacing Crops.
No. 159,658
Patented Feb. 9, 1875.
Fig 5
Fig 6
Fig 7
Fig 9
Fig 8
Witnesses:
H. A. Daniels
Inventors:
James Kennan
Thos. Kennan by
C. Whitman atty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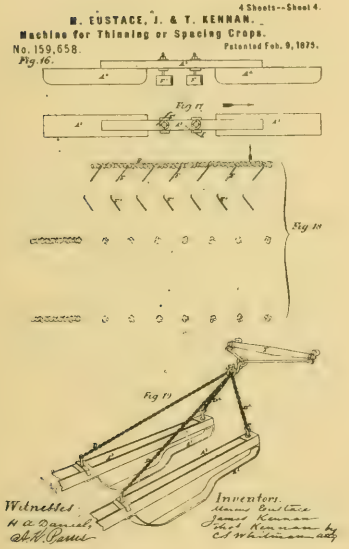
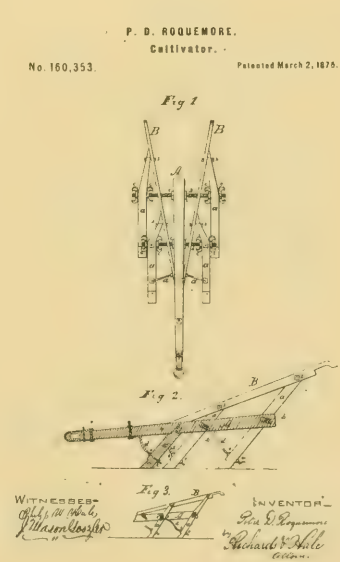
M. EUSTACE, J. & T. KENNAN.
Machine for Thinning or Spacing Crops.
No. 159 658
Patented Feb. 9, 1875.
Fig 11
Fig 10
Fig 13
Fig 12
Fig 14
Fig 15
Witnesses:
H. A. Daniels
Inventors:
James Kennan
Thos. Kennan by
C. Whitman atty

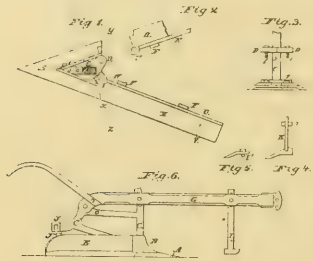

4 Sheets--Sheet 4.
M. EUSTACE, J. & T. KENNAN.
Machine for Thinning or Spacing Crops.
No. 159,658.
Patented Feb. 9, 1875.
Fig. 16.
Fig 17
Fig 18
Fig 19
Witnesses:
H. A. Daniels
Inventors.
James Kennan
Thos. Kennan by
C. Whitman atty

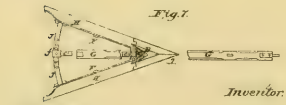

P. D. ROQUEMORE.
Cultivator.
No. 160,353.
Patented March 2, 1875.
Fig 1
Fig 2.
Fig 3.
WITNESSES:
INVENTOR:
Richard V. White
Atty.

J. ROBSCH.

Weed Cutter and Hiller.

No. 160,545 Patented March 9, 1875.





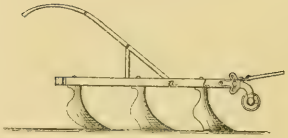
Witnesses
Charles E. Stokes.
Jacob Christie.

Inventor.
Joseph Robsch
per
Joseph Rylander
Atty

L. C. ROBERTS.

Cultivator.

No 161,157 Patented March 23, 1875.



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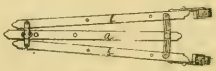


Fig. 2

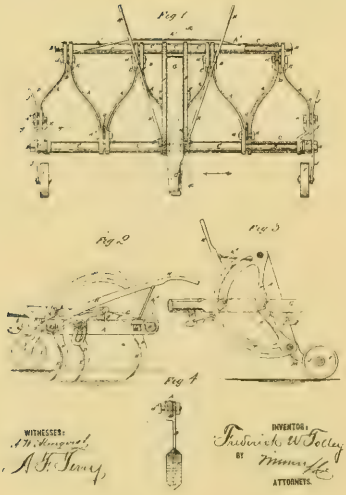
WITNESSES
L. A. Crowell
Amos Stevens

INVENTOR
Lucius C. Roberts

F. W. TOLLEY.

Cultivator.

No. 161,455 Patented March 30, 1875.



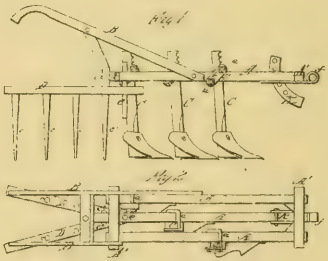
WITNESSES:
A. W. Kingsland
A. F. Terry

INVENTOR:
Frederick W. Tolley
BY
Munn & Co.
ATTORNEYS.

E. M. POTTER.

Cultivator and Harrow Combined.

No 163,523 Patented May 18, 1875.

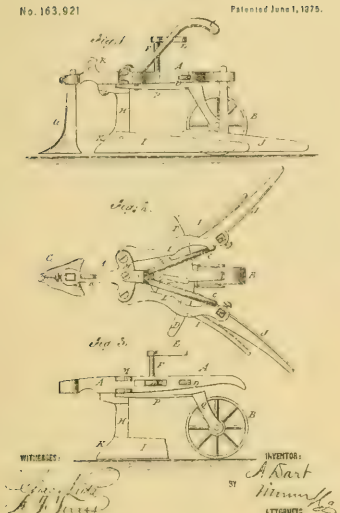


WITNESSES
Robert Cresse
H. H. Stall

INVENTOR
E. M. Potter
Chipman & Hopkins
ATTORNEYS

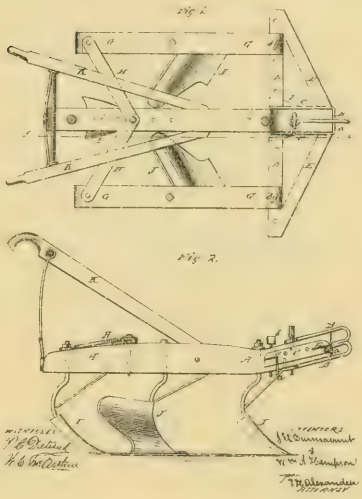
A. DART.
Cultivator.

No. 163,921 Patented June 1, 1875.



I. U. DUNNAVANT & W. A. HAMPSON
Cultivator.

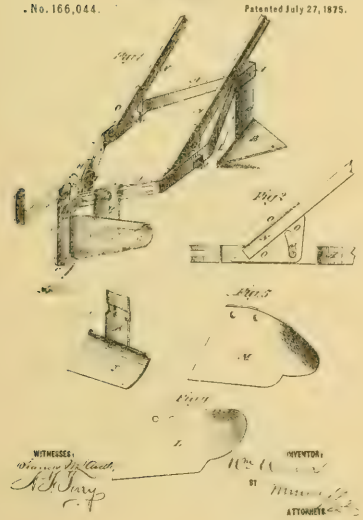
No. 165,552. Patented July 13, 1875.



W. WEAVER.
Cultivator.

2 Sheets--Sheet 1.

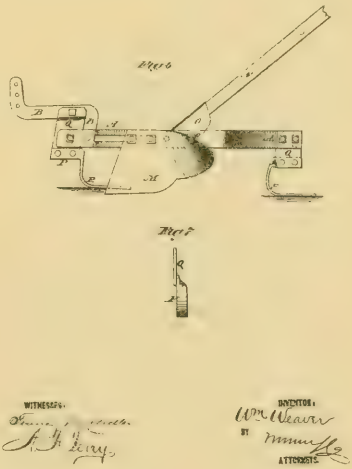
No. 166,044. Patented July 27, 1875.



W. WEAVER.
Cultivator.

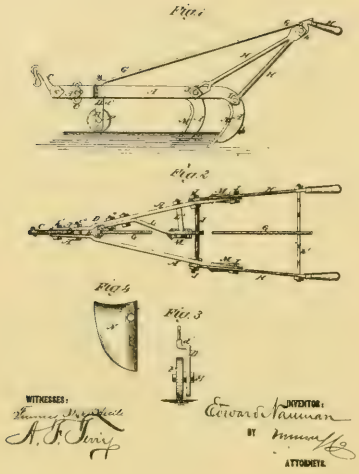
2 Sheets--Sheet 2.

No. 166,044. Patented July 27, 1875.



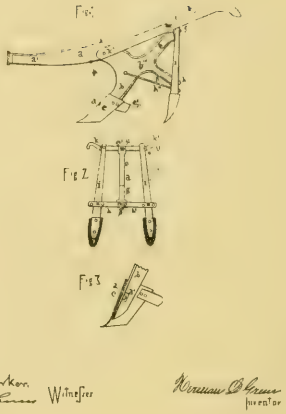
E. NAUMAN.
Cultivator.

No. 166,296. Patented Aug. 3, 1875.



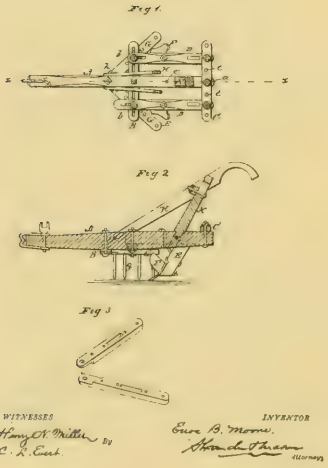
H. D. GREEN.
CULTIVATOR.

No. 170,549. Patented Nov. 30, 1875.



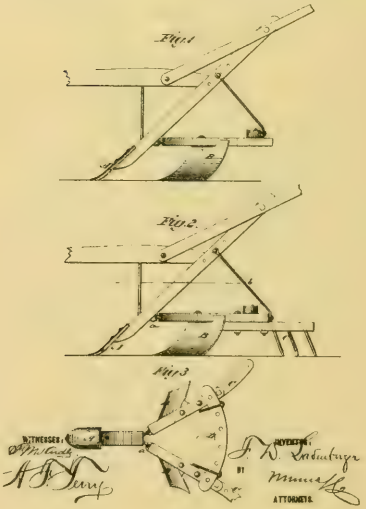
E. B. MOORE.
CULTIVATOR.

No. 170,882. Patented Dec. 7, 1875.

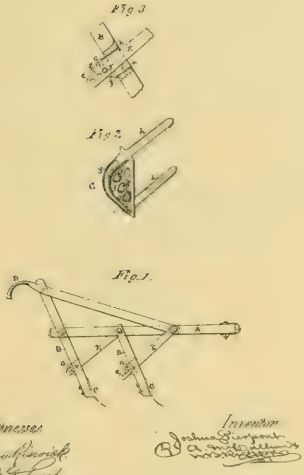


F. D. LADENBERGER.
HARROW ATTACHMENT FOR CULTIVATOR-PLOWS

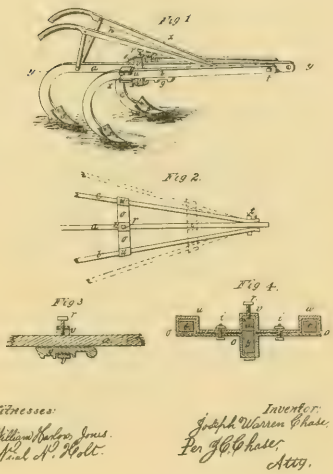
No. 171,391. Patented Dec. 21, 1875.



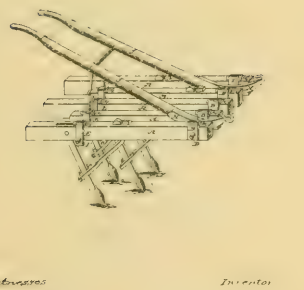
J. PIERPONT.
CULTIVATOR.
No. 171,480. Patented Dec. 21, 1875.



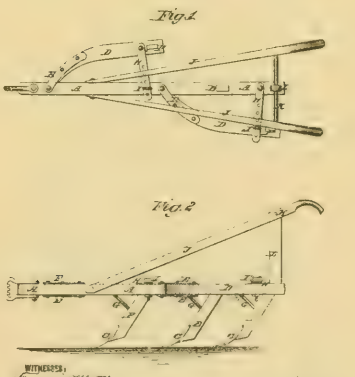
J. W. CHASE.
CULTIVATOR.
No. 171,503. Patented Dec. 28, 1875.



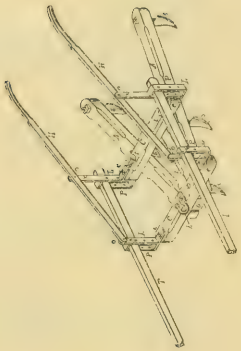
N. C. COLE.
CULTIVATOR.
No. 172,869. Patented Feb. 1, 1876.



J. A. PRICE.
CULTIVATOR.
No. 173,238. Patented Feb. 8, 1876



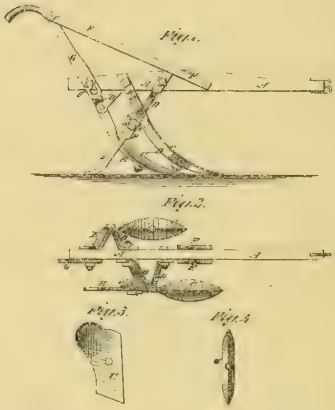
W. A. SQUIER.
CULTIVATOR.
No. 173,425. Patented Feb. 15 1876.



Witnesses:
B. F. Parsons
B. F. Parsons

Inventor:
W. A. Squier

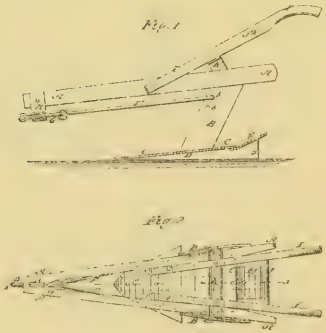
T. J. & G. W. MONTGOMERY.
CULTIVATOR.
No. 173,554. Patented Feb. 15, 1876.



WITNESSES:
Geo. M. Hardie
A. F. Ferry

INVENTORS:
T. J. Montgomery
G. W. Montgomery
by Munn & Co.
ATTORNEYS

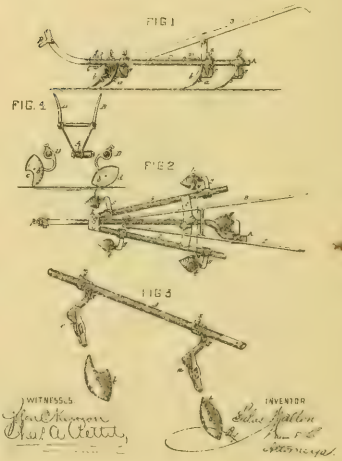
J. S. SWANEY.
ROOT CUTTING PLOW.
No. 175,200. Patented March 21, 1876.



WITNESSES:
E. Wolff
John Wheeler

INVENTOR:
J. S. Swaney
by Munn & Co.
ATTORNEYS

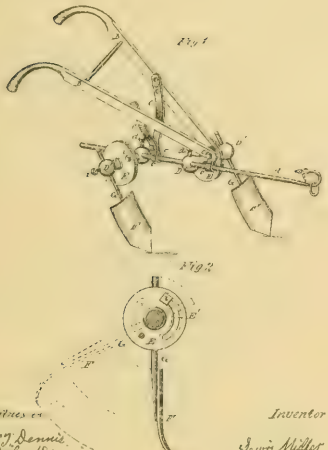
S. WALTON.
CULTIVATOR.
No. 175,216. Patented March 21, 1876.



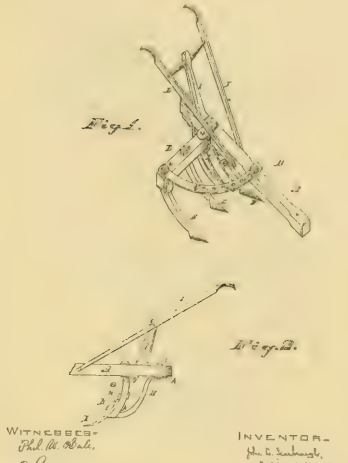
WITNESSES:
Geo. Harrison
Chas. A. Pratt

INVENTOR
Silas Walton
by Munn & Co.
Attorneys

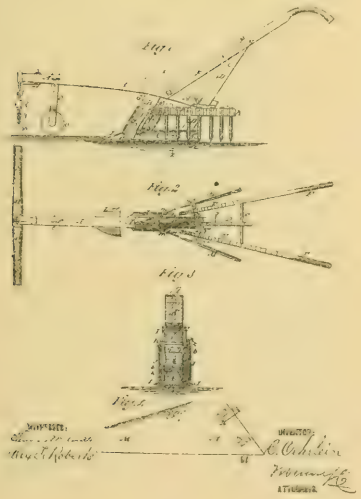
L. MILLER.
CORN-PLOW.
No. 175,251. Patented March 28, 1876.



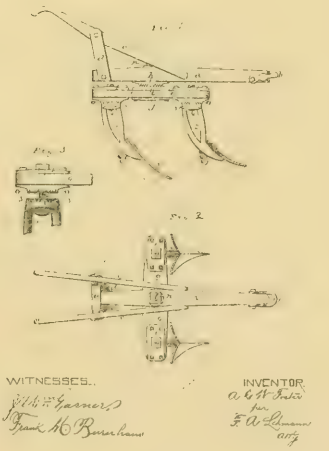
J. L. SCARBROUGH
COMBINED PLOW AND HARROW.
No. 176,072. Patented April 11, 1876



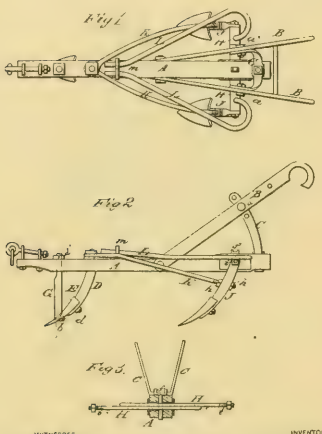
C. OEHRLEIN.
CULTIVATOR.
No. 176,240. Patented April 18, 1876.



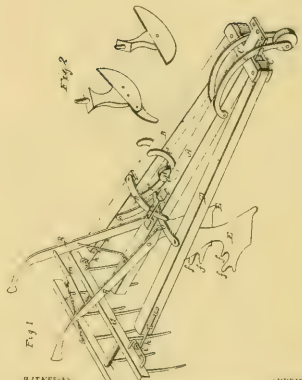
A. G. W. FOSTER.
CULTIVATOR AND SUBSOILER.
No. 176,466. Patented April 25, 1876.



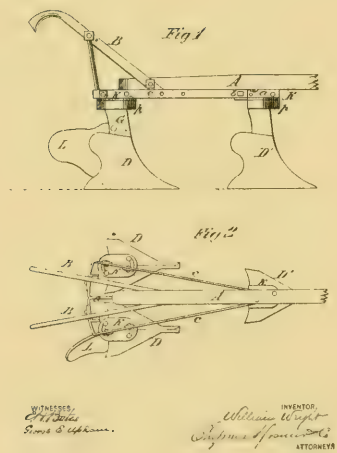
F. W. STOSSBERG.
CULTIVATOR.
No. 175,704. Patented April 25, 1876.



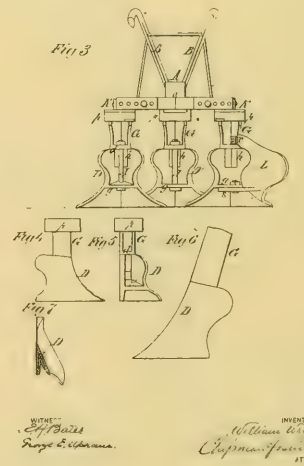
A. RIGBY.
CULTIVATOR
No. 177,007. Patented May 2, 1876.



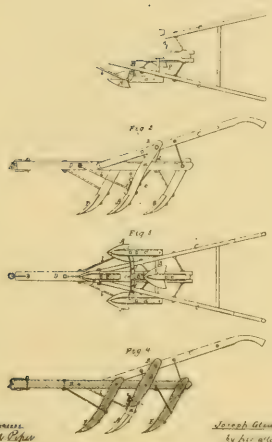
2 Sheets—Sheet 1.
W. WRIGHT.
CULTIVATOR
No. 176,826. Patented June 13, 1876.



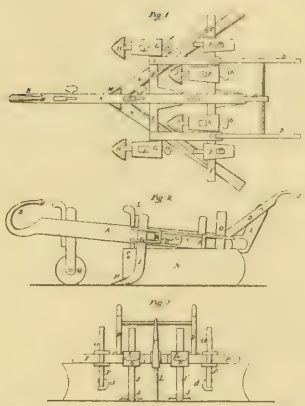
2 Sheets—Sheet 2.
W. WRIGHT.
CULTIVATOR
No. 176,826. Patented June 13, 1876.



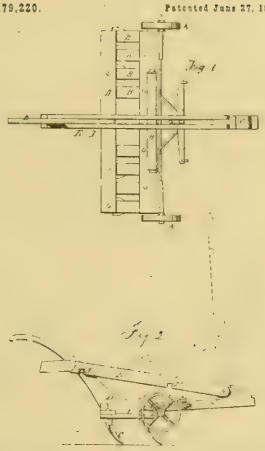
GLIDDEN.
TIVATOR.
Patented June 20, 1876.



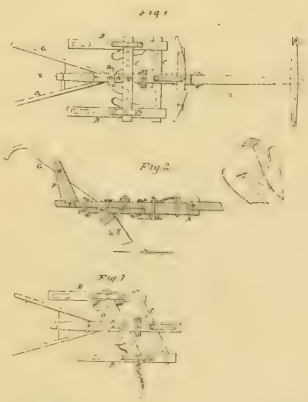
J. M. CRABTREE.
CULTIVATOR.
No. 178,912. Patented June 20, 1876.



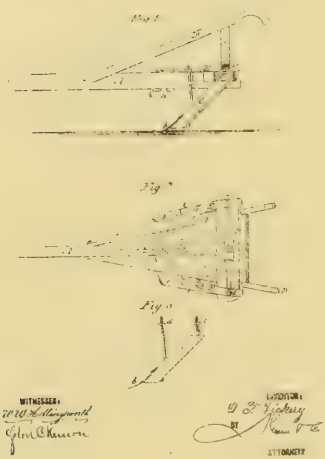
G. W. RHODES.
CULTIVATOR.
No. 179,220. Patented June 27, 1876.



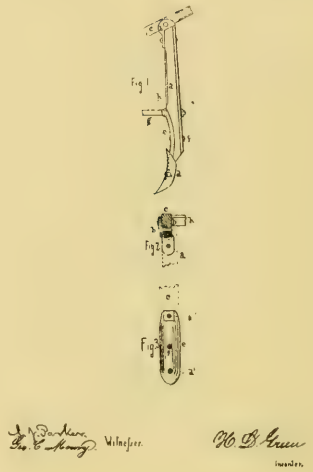
G. W. PERRY.
PLOW.
No. 179,600. Patented July 4, 1876.



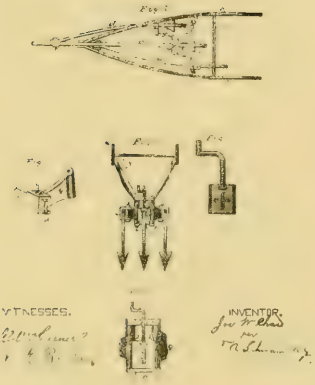
D. F. VICKERY.
CULTIVATOR.
No. [illegible] 176. Patented July 25, 1876.



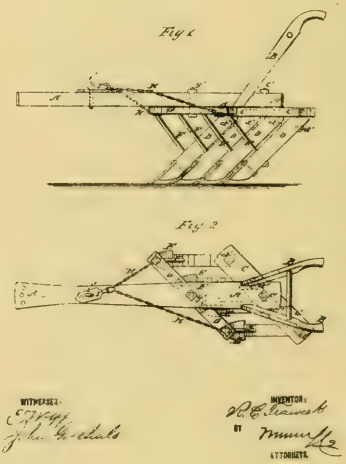
H. D. GREEN.
CULTIVATORS
No. 180,999. Patented Aug. 15, 1876.



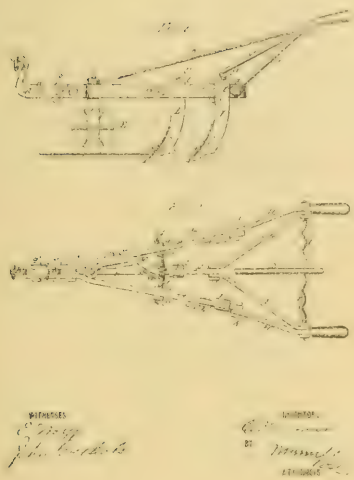
J. W. CHASE.
CULTIVATORS.
No. 181,041. Patented Aug. 15, 1876.



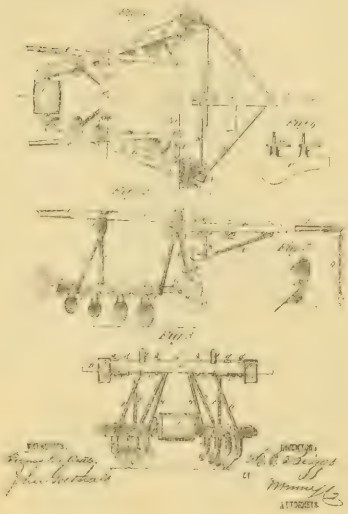
R. C. TRAWEEK.
PLOWS.
No. 181,746. Patented Aug. 29, 1876.



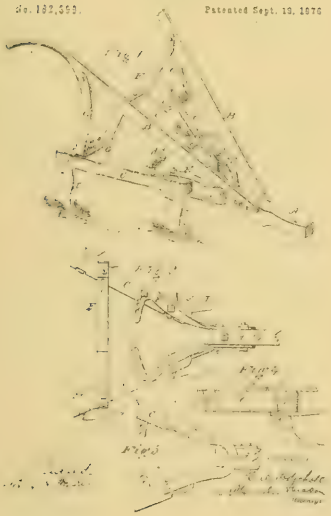
[illegible]
CULTIVATOR.
No. 182,122. Patented Sept. 12, 1876



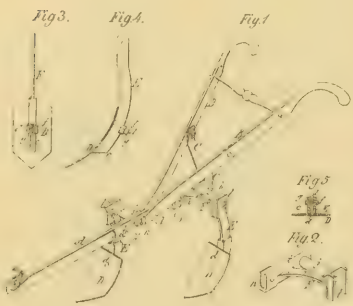
H. C. BRIGGS.
CULTIVATOR.
No. 182,347. Patented Sept. 19, 1876.



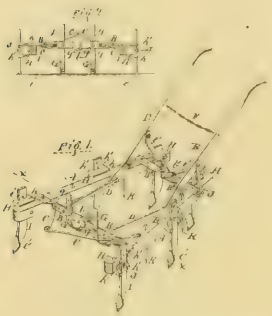
E. A. ADERHOLT.
CULTIVATOR.
No. 182,393. Patented Sept. 19, 1876



E. WIARD.
CULTIVATORS
No. 183,090. Patented Oct. 10, 1876.



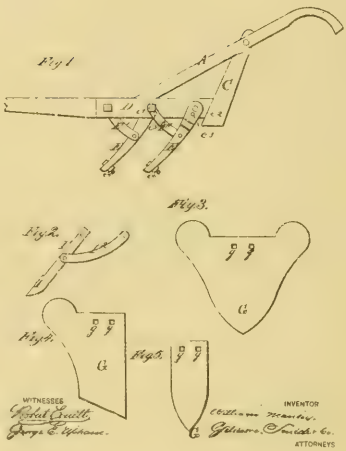
A. DEMARCE & T. VREELAND.
COMBINED CULTIVATOR AND HARROW
No. 183,147. Patented Oct. 10, 1876



Witnesses:
A. Richards
M. E. Demarce

Inventors
Anthony Demarce
and Tennis Vreeland,
By A. B. Richards,
Atty.

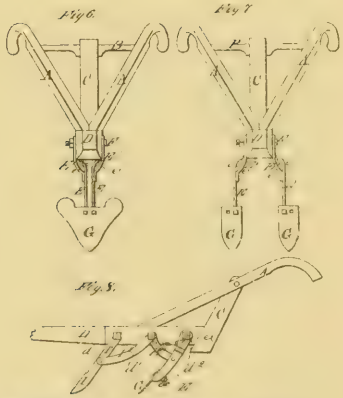
2 Sheets—Sheet 1.
W. MANLEY.
CULTIVATORS
No. 183,183. Patented Oct. 10, 1876



WITNESSES
Robert Crail
George E. Upham

INVENTOR
William Manley
G. Upham & Swinton & Co.
ATTORNEYS

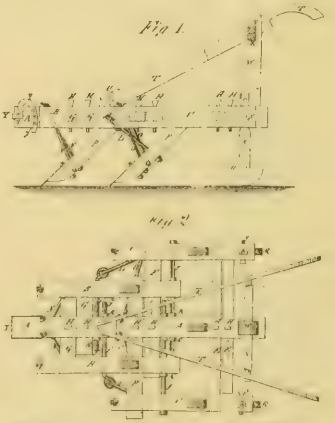
2 Sheets—Sheet 2.
W. MANLEY.
CULTIVATORS.
No. 183,183. Patented Oct. 10, 1876.



WITNESSES
Robert Crail
George E. Upham

INVENTOR.
William Manley
G. Upham & Swinton & Co.
ATTORNEYS.

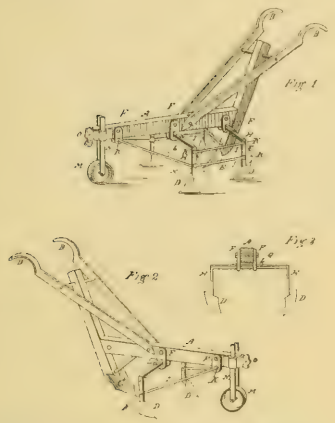
G. A. PARSONS.
CULTIVATOR.
No. 183,202. Patented Oct. 10, 1876.



WITNESSES:
H. Hedgeid
John Corbett

INVENTOR:
G. A. Parsons
BY Munn & Co.
ATTORNEYS

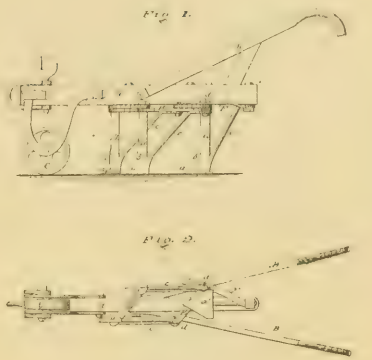
M. M. ROWELL.
CULTIVATOR.
No. 183,868. Patented Oct. 31, 1876.



WITNESSES:
E. L. King
A. H. Schettler

INVENTOR:
Mark M. Rowell
by J. J. Lowry
his Atty in fact.

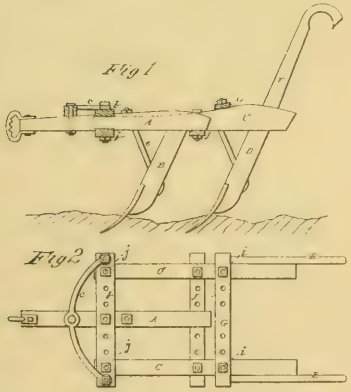
G. W. PARISH.
RICE CULTIVATOR
No. 184,658. Patented Nov. 21, 1876



WITNESSES:
Geo. O. Kenna
Chas. A. Bettit

INVENTOR:
G. W. Parish
BY
J. Kenna & Co.
ATTORNEYS.

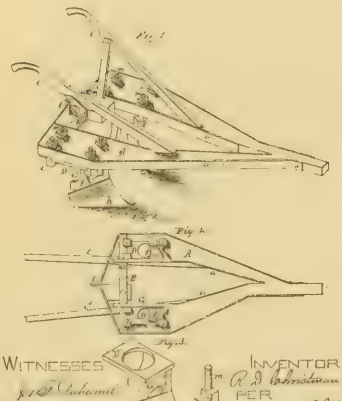
T. I. TEAGLE.
CULTIVATOR.
No. 184,574. Patented Nov. 21, 1876.



WITNESSES:
A. H. Davis
George E. Upham

INVENTOR
Thomas I. Teagle
Chapman & Hanson Co.,
ATTORNEYS

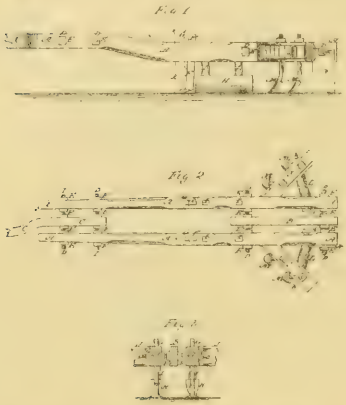
R. D. CHRISTMAN.
GANG-PLOW
No. 184,838. Patented Nov. 28, 1876.



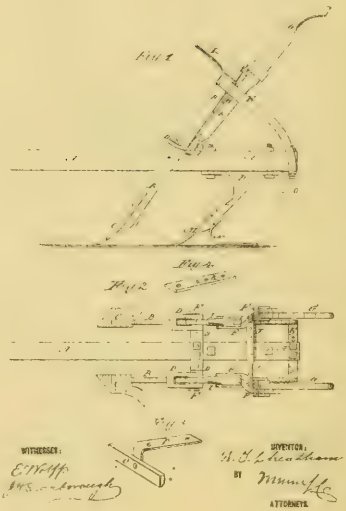
WITNESSES
J. E. Ashcraft
Thomas Sayre.

INVENTOR
R. D. Christman
PER
A. H. Ashcraft
ATTORNEY

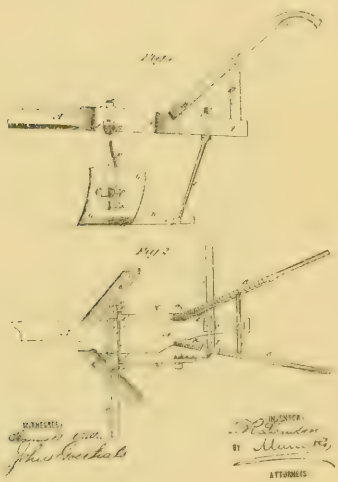
T. T. McALLISTER & W. W. McDONALD
CULTIVATING PLOW.
No. 185,039 Patented Dec. 5, 1876.



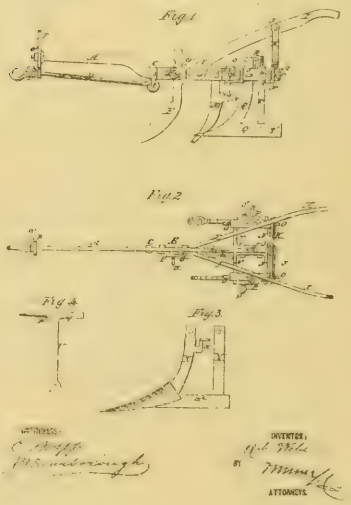
W. T. CHEATHAM.
PLOW.
No. 185,211. Patented Dec. 12, 1876.



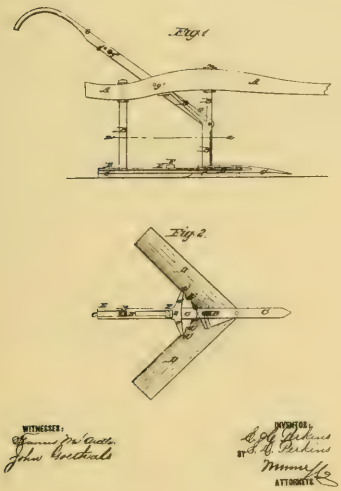
T. R. LANDON.
CULTIVATOR.
No. 185,551. Patented Dec. 19, 1876



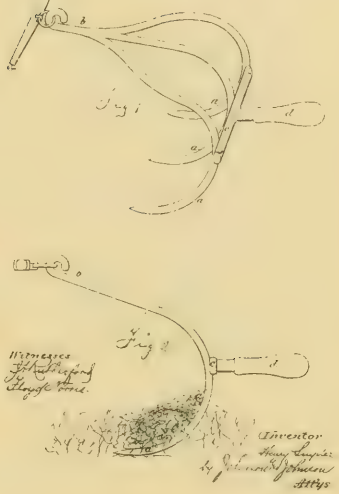
R. WEBER.
PLOW-STOCK.
No. 186,284. Patented Jan. 16, 1877.



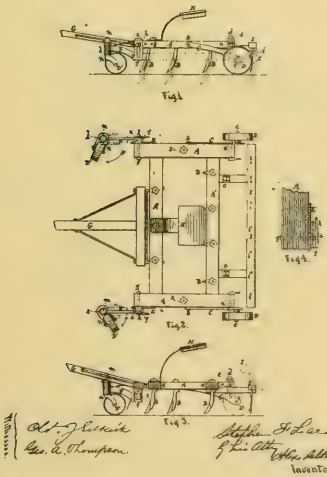
E. H. & S. D. PERKINS.
CULTIVATOR.
No. 186,611. Patented Jan. 23 1877.



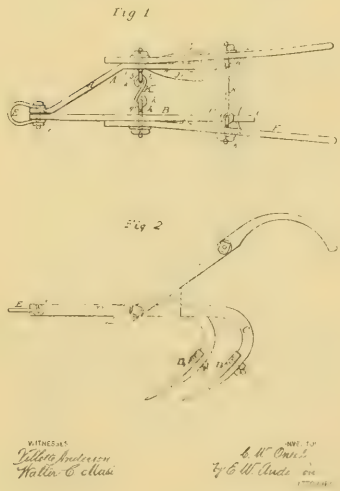
H. SNYDER.
HORSE FORK HOOK
No. 187,190. Patented Feb. 6, 1877



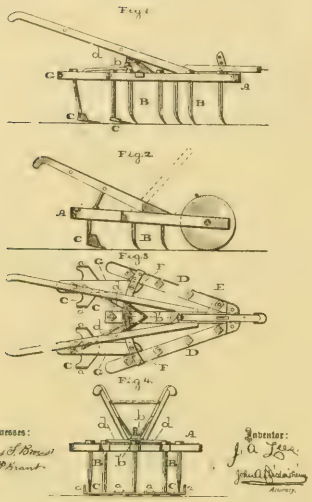
S. F. LEE.
CULTIVATORS.
No. 187,470. Patented Feb. 20, 1877.



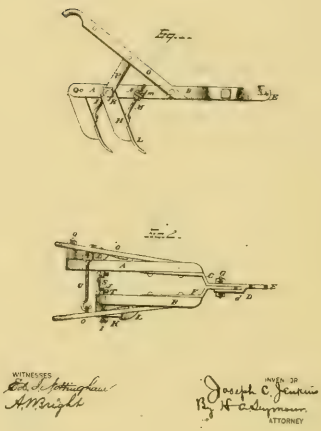
C. W. ONEAL.
PLOW-COUPLINGS FOR DOUBLE SHOVELS
No. 187,665. Patented Feb. 20, 1877.



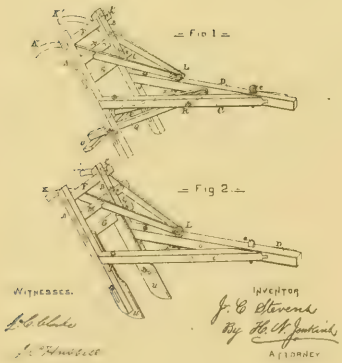
J. A. LEES.
WEED DESTROYER.
No. 189,238. Patented April 3, 1877.



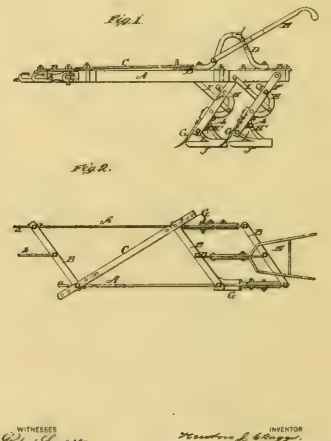
J. C. JENKINS.
PLOW.
No. 189,466. Patented April 10, 1877.



J. C. STEVENS.
CULTIVATOR.
No. 189,513. Patented April 10, 1877.

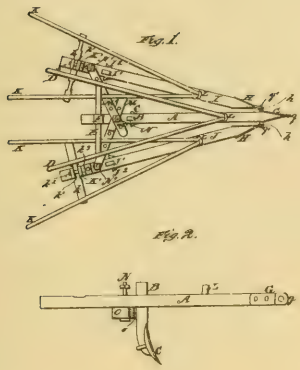


N. J. SKAGGS.
PLOW-STOCK.
No. 190,092. Patented April 24, 1877.



A. BUSENGER.
CULTIVATORS.

No. 190,280. Patented May 1, 1877.



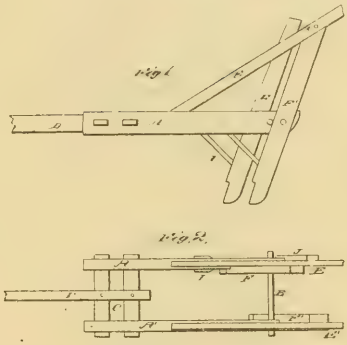
WITNESSES
Robt. Everett
George E. Wilson

INVENTOR.
Anthony Busenger
Geo. H. Christy
ATTORNEYS.

2 Sheets—Sheet 1.

J. R. JACKSON.
PLOW.

No. 190,593. Patented May 8, 1877.



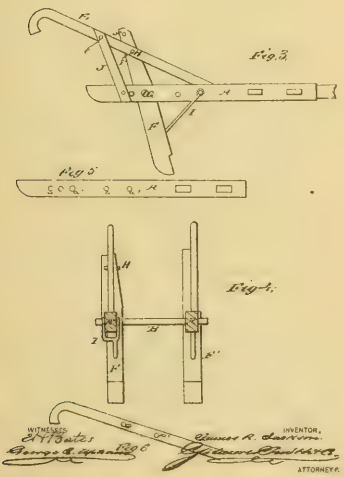
WITNESSES
E. H. Bates
George E. Wilson

INVENTOR
James R. Jackson
Geo. H. Christy
ATTORNEYS.

2 Sheets—Sheet 2.

J. R. JACKSON.
PLOW.

No. 190,593. Patented May 8, 1877.

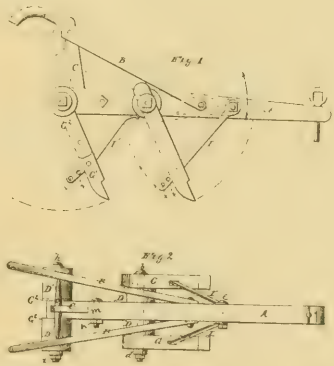


WITNESSES
E. H. Bates
George E. Wilson

INVENTOR.
James R. Jackson
Geo. H. Christy
ATTORNEYS.

T. F. McNAIR.
CULTIVATOR.

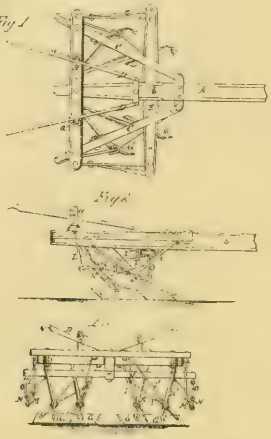
No. 191,458. Patented May 29, 1877.



WITNESSES
Francis L. Ostland
Frank Gall

INVENTOR
Thos. F. McNair
Alexander Simpson
ATTORNEYS

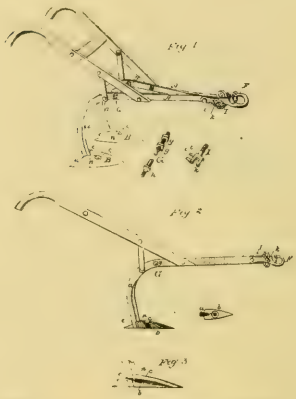
N. MESSENGER & J. ERWIN.
CULTIVATOR.
No. 191,990. Patented June 12, 1877.



WITNESSES
H. B. Cox Arthur
C. E. Frost.

INVENTORS
N. Messenger
J. Erwin
by Munn & Co
ATTORNEYS.

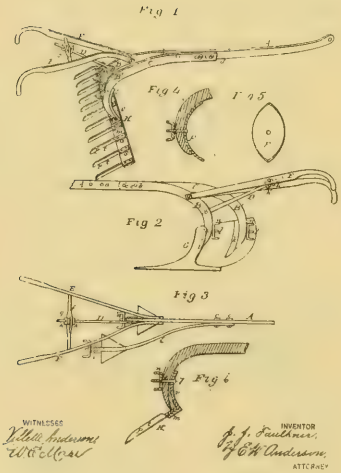
F. S. TARTT & G. F. WILSON.
CULTIVATOR.
No. 192,029. Patented June 12, 1877.



Witnesses
C. Clarence Poole
A. T. Cole

Inventor
F. S. Tartt and G. F. Wilson
By their Atty
A. D. P. Smith

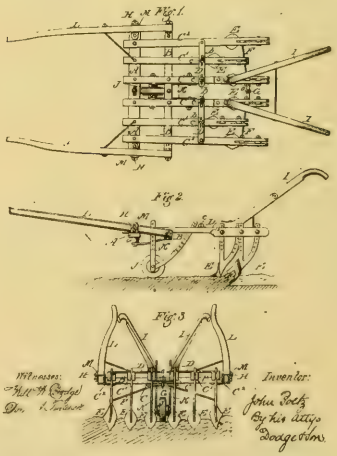
J. J. FAULKNER.
CULTIVATOR.
No. 192,060. Patented June 19, 1877.



WITNESSES
W. H. Anderson
W. C. Elliott

INVENTOR
J. J. Faulkner,
by C. H. Anderson,
ATTORNEY

J. POETZ.
WALKING-CULTIVATOR.
No. 192,387. Patented June 26, 1877.



Witnesses:
W. H. Chapman
Dan. L. Ambrose

Inventor:
John Poetz
By his Attys
Dodge & Sons

D. STANCHFIELD.
CULTIVATORS

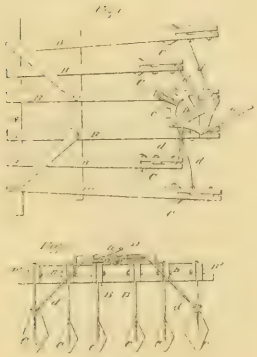
No. 194,009. Patented Aug. 7, 1877.

Witnesses:
Francis J. Allen
Mary F. Colby.

Inventor
D. Stanchfield.
by Ell Anderson
Attorney.

J. POETZ.
CULTIVATORS

No. 194,108. Patented Aug. 14, 1877.

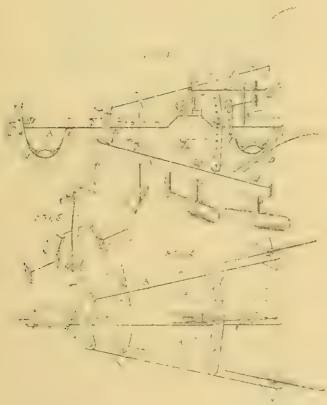


Witnesses:
Robert J. Mitchell
Geo. D. Pattison

Inventor
J. Poetz
by Lodge & Son
Attys.

2 Sheets—Sheet 1.
M. N. WARD.
CULTIVATOR, WEEDER AND MARKER.

No. 194,504 Patented Aug. 21, 1877.

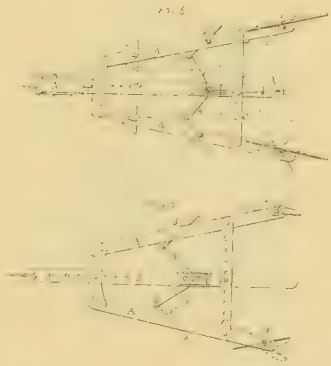


W. THESSES
F. L. Emmons
A. H. Greely

INVENTOR
Moses N. Ward
by A. Deane
ATTORNEY

2 Sheets—Sheet 2.
M. N. WARD.
CULTIVATOR, WEEDER AND MARKER

No. 194,504 Patented Aug. 21, 1877.



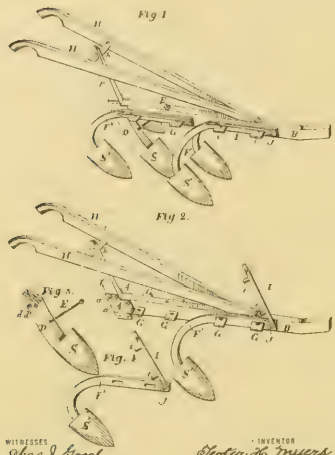
W. THESSES
F. L. Emmons
Abbott

INVENTOR
M. N. Ward.
by A. Deane.
ATTORNEY

2 Sheets—Sheet 1.

T. H. MYERS.
SHOVEL-PLOW AND CULTIVATOR.

No. 194,713. Patented Aug. 28, 1877.



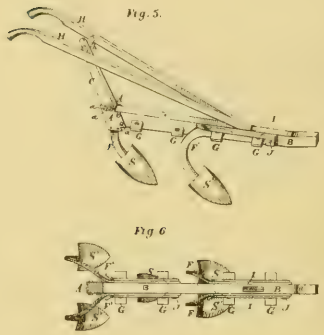
WITNESSES
Chas J Cooch
L. Blond Burdett

INVENTOR
Theoter H. Myers.
by Knight Bros Attorneys

2 Sheets—Sheet 2.

T. H. MYERS.
SHOVEL-PLOW AND CULTIVATOR.

No. 194,713. Patented Aug. 28, 1877.

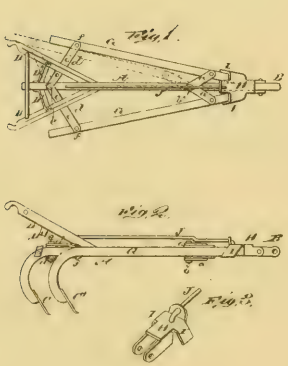


WITNESSES
Chas J Cooch
L. Blond Burdett

INVENTOR
Theoter H. Myers
by Knight Bros Attorneys

A. P. HENERY.
CULTIVATORS.

No. 195,125. Patented Sept. 11, 1877.

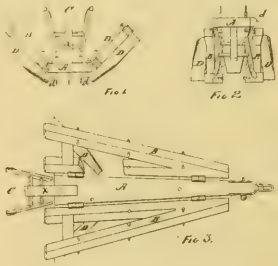


WITNESSES
Jonas Shelby

INVENTOR
Alexander P. Henery
by Geo. Ward Smith
ATTORNEY

J. W. SOHN.
CULTIVATORS.

No. 195,459. Patented Sept. 25, 1877

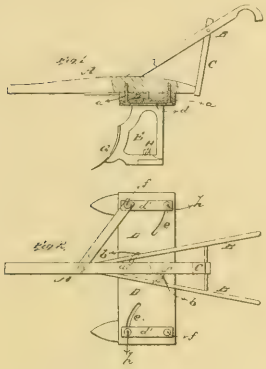


Witnesses
H. P. K. Peck
J. Henry Henry

Inventor
John W. Sohn
Attorneys

A. JONES
Cultivator.

No. 196,670. Patented Oct. 30, 1877.



WITNESSES:
E. N. Betts
George E. Upham

INVENTOR.
Ira Jones.
Dennore, Smith & Co
ATTORNEYS.

C. J. COOPER.
Double-Winged Cultivator.

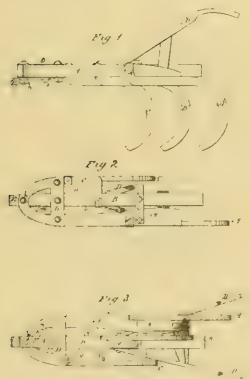
No. 197,100. Patented Nov. 13, 1877

Witnesses:
Faust & Linsch
Frank Gatt

Inventor:
Charles J. Cooper
Schuler & Hudson
Attorneys.

J. P. TERRY
Cultivator.

No. 197,184. Patented Nov. 13, 1877.



WITNESSES:
W. W. Lillingston
John C. Kerr

INVENTOR:
Joseph P. Terry
BY
ATTORNEYS.

A. G. PERRY
Plows.

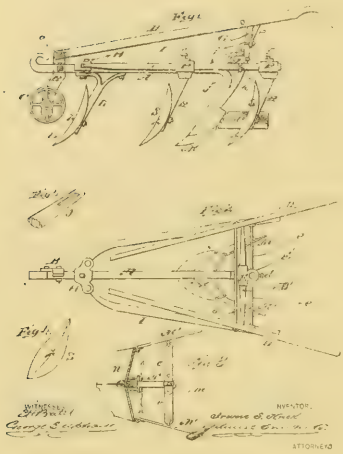
No. 197,660. Patented Nov. 27, 1877.

Witnesses
J. A. Rathbun
A. H. Dunn

Inventor
A. G. Perry
By James L. Norris
Atty

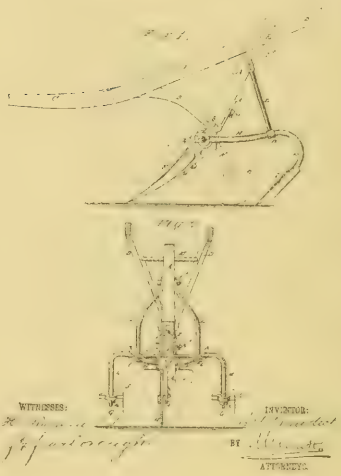
I. S. ERICK.
Cultivator.

No. 197,867. Patented Dec. 4, 1877



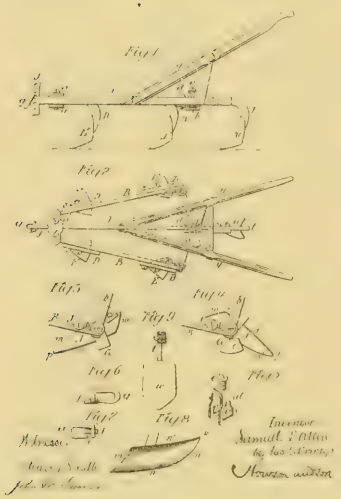
I. A. BENEDICT.
Cultivator.

No. 199,017. Patented Jan. 8, 1878.



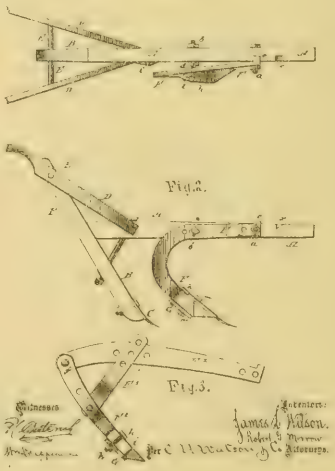
S. L. ALLEN.
Cultivator.

No. 200,681. Patented Feb. 26, 1878.



J. L. WILSON & R. G. MORROW.
Plow.

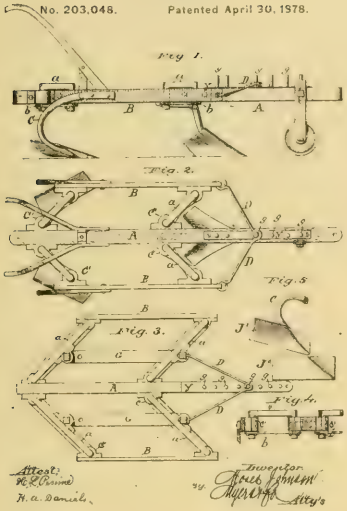
No. 202,972. Patented April 30, 1878.



2 Sheets—Sheet 1

M. JOHNSON.
Cultivator.

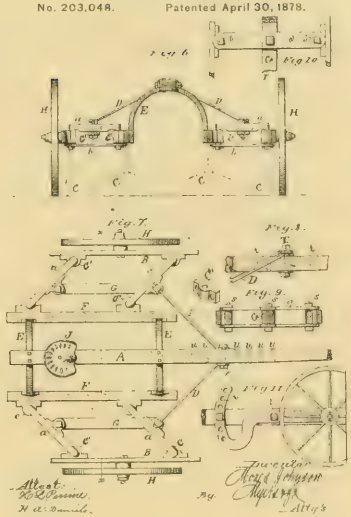
No. 203,048. Patented April 30, 1878.



2 Sheets—Sheet 2

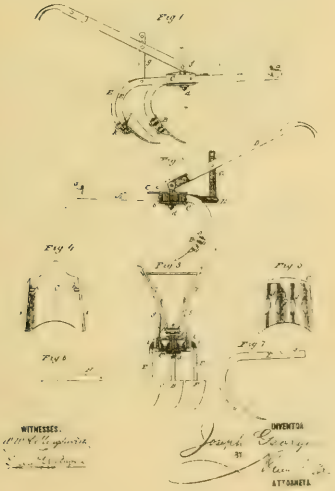
M. JOHNSON.
Cultivator.

No. 203,048. Patented April 30, 1878.



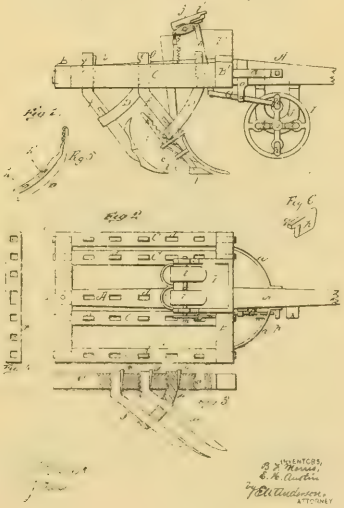
J. GEORGE.
Cultivator.

No. 205,630. Patented July 2, 1878.



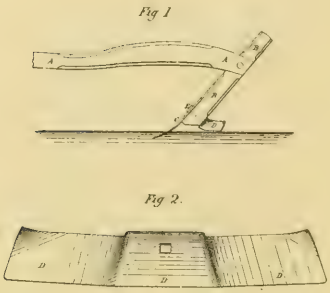
B. F. MORRIS & E. H. AUSTIN.
Cultivator and Seeder.

No. 205,668. Patented July 2, 1878.



H. D. TERRELL.
Scraper Attachment for Shovel-Plow.

No. 206,505. Patented July 30, 1878.

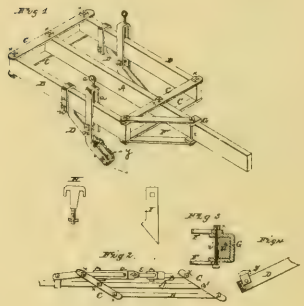


WITNESSES:
Achilles Schehl
L. Sedgwick

INVENTOR:
H. D. Terrell
BY Munn & Co.
ATTORNEYS.

B. WILLIAMS & C. C. MORGAN.
Plow.

No. 206,654. Patented July 30, 1878.

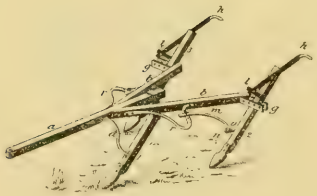


WITNESSES
P. L. Quesard
Wilkefatt

INVENTOR
Zachary Williams
Crawford C. Morgan
By Alexander Thomson Attorneys

P. SODERLUND.
Corn-Plow.

No. 206,752. Patented Aug. 6, 1878.

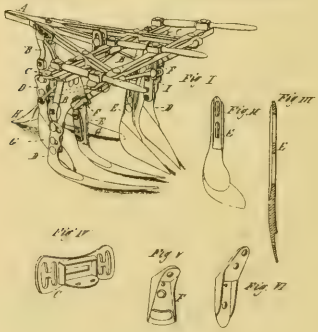


Attest:
Arthur Stanson
P. C. Kenyon

Inventor:
Peter Soderlund,
By Thomas G. Orwig
Attorney

H. N. PROUT.
Hoeing-Machine.

No. 207,443. Patented Aug. 27, 1878.

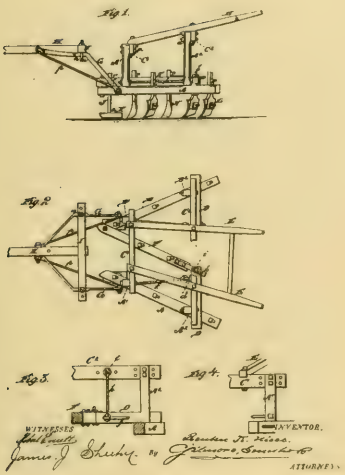


Witnesses.
F. A. Brown
C. B. Buckland

Inventor.
Horace N. Prout

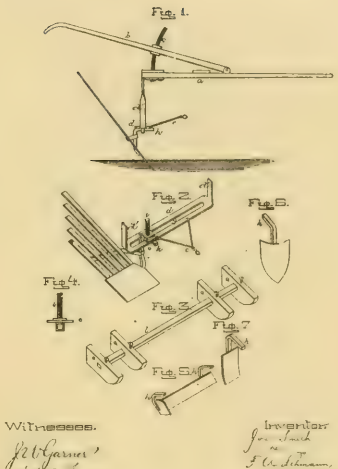
R. K. NIECE.
Cultivator.

No. 207,767. Patented Sept. 3, 1878.



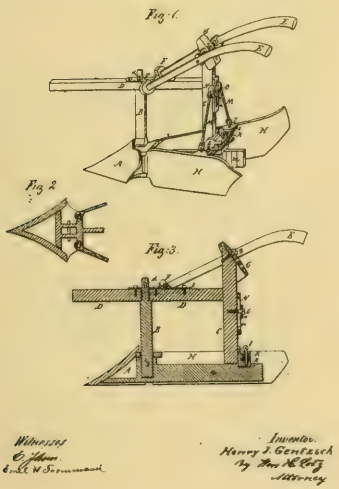
J. SMITH.
Cultivator.

No. 207,778. Patented Sept. 3, 1878.



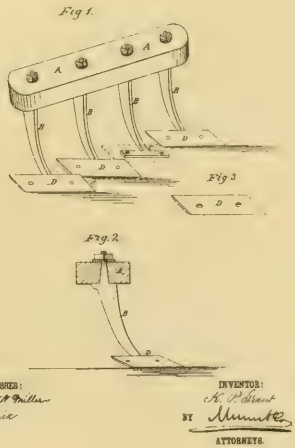
H. J. GENTZSCH, Sr.
Plow.

No. 207,960. Patented Sept. 10, 1878.



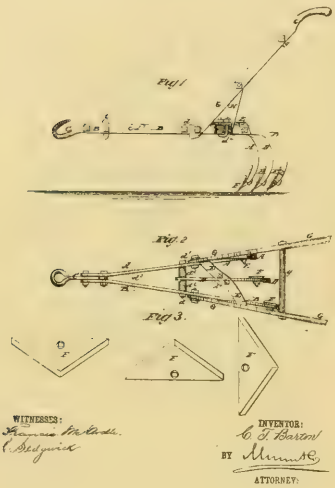
K. P. GRANT.
Weeder.

No. 208,084. Patented Sept. 17, 1878



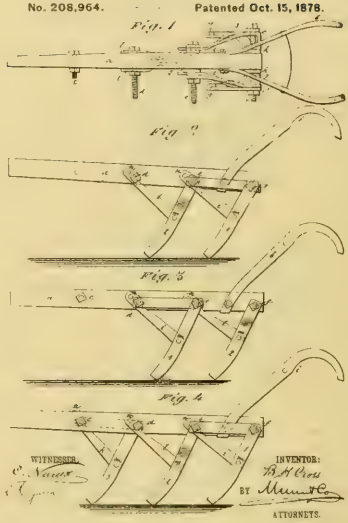
C. T. BARTON.
Cultivator.

No. 208,284. Patented Sept. 24, 1878.



B. H. CROSS.
Cultivator.

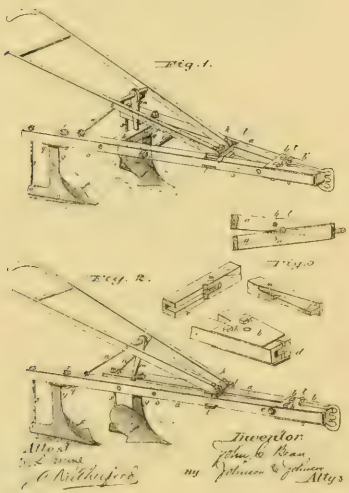
No. 208,964. Patented Oct. 15, 1878.



2 Sheets—Sheet 1

J. C. BEAN
Cultivator.

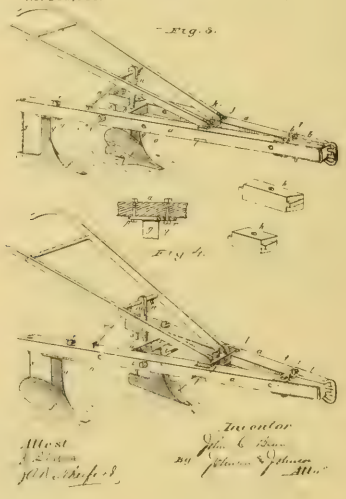
No. 209,005. Patented Oct. 15, 1878.



2 Sheets—Sheet 2

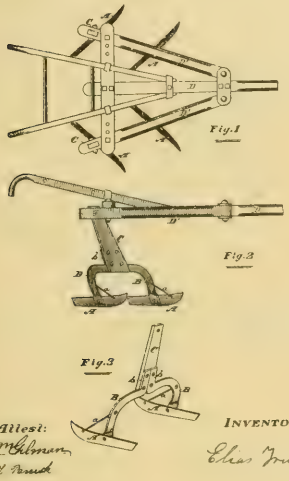
J. C. BEAN.
Cultivator.

No. 209,005. Patented Oct 15, 1878.



E. TRUMBO.
Cultivator.

No. 209,366. Patented Oct. 29, 1878.

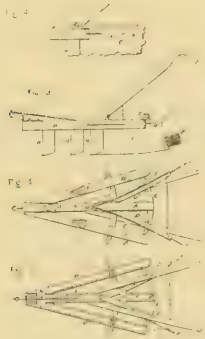


Witnesses:
Wm. Gilman
C. L. Trumbo

INVENTOR:
Elias Trumbo

J. JENNINGS, Jr
Cultivator

No. 209,481. Patented Oct. 29, 1878

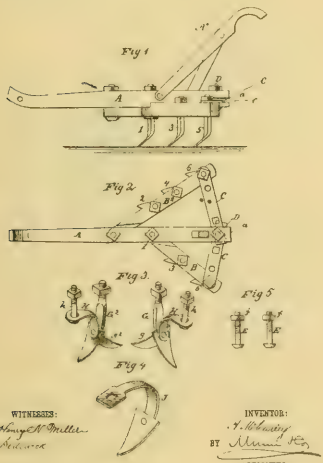


Witnesses
Robert Lain
J. C. Comf

Inventor
John Jennings Jr.
by C. E. Wrightsman
his Atty

A. McCURLEY.
Combined Harrow and Cultivator.

No. 209,823. Patented Nov. 12, 1878.

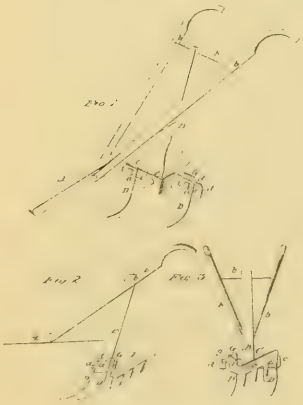


WITNESSES:
Henry N. Miller
C. Delaney

INVENTOR:
A. McCurley
BY Munn & Co.
ATTORNEYS

L. M. OTWELL.
Plow and Cultivator.

No. 210,351. Patented Nov. 26, 1878.

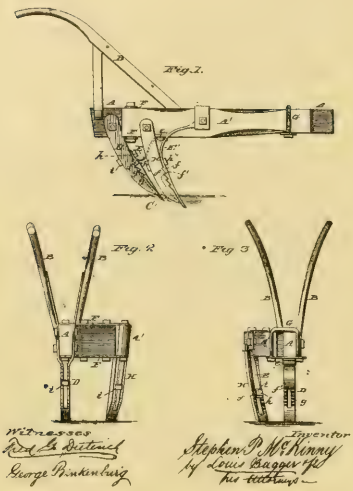


Witnesses
J. S. Gallnick
Jos. Bonsall

Inventor
Littleton M. Otwell
by Louis Bagger & Co.
his Attorneys

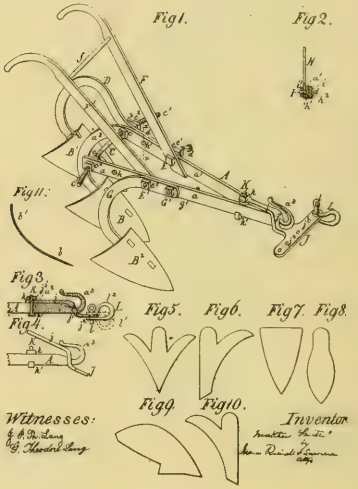
S. P. McKINNY.
Plows.

No. 210,548. Patented Dec. 3, 1878.



M. SMITH.
Cultivator.

No. 210,718. Patented Dec. 10, 1878.



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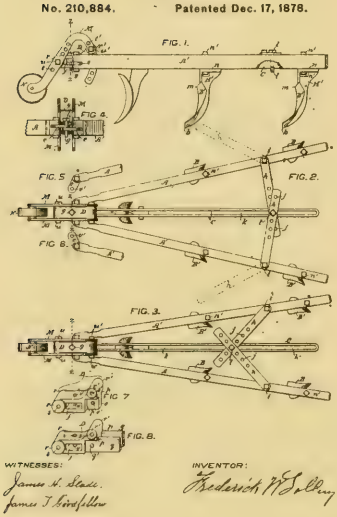
F. W. TOLLEY.
Cultivators.

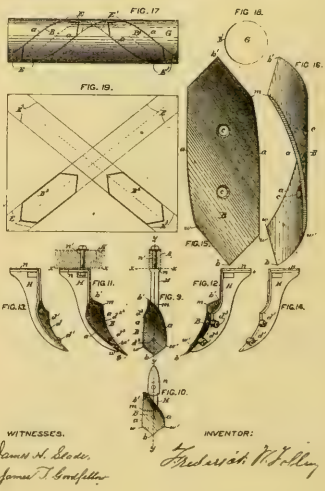
No. 210,884. Patented Dec. 17, 1878.



2 Sheets—Sheet 2

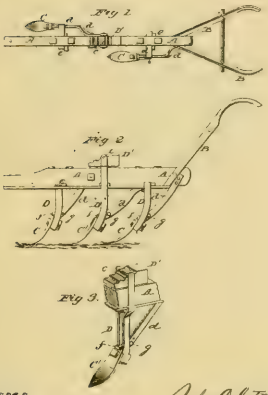
F. W. TOLLEY.
Cultivators.

No. 210,884. Patented Dec. 17, 1878.



J. C. GUY.
Cultivator.

No. 211,397. Patented Jan. 14, 1879.

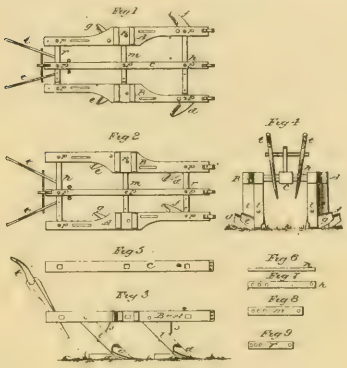


Witnesses
Geo. Bontlebing

John C. Guy Inventor
by Louis Bagger & Co.
Attorneys

J. CHAPMAN.
Reversible Gang-Plows.

No. 212,697. Patented Mar. 4, 1879.

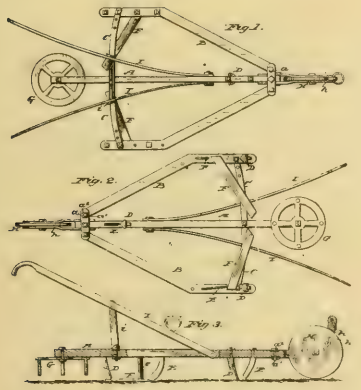


Witnesses
W. A. Keaston
S. D. Harris Jr

Inventor
J. C. Chapman
By H. J. Ennis
Atty

C. McGREW.
Cultivator.

No. 213,341 Patented Mar. 18, 1879.

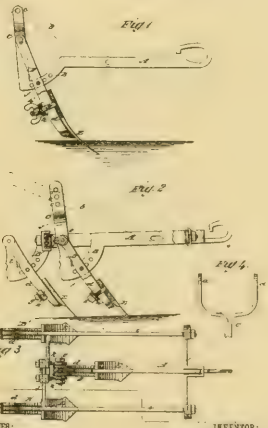


Witnesses
Geo. G. Dietrich
Geo. Bontlebing

Inventor
Charles McGrew
by D. McC. G. Allen
Attorney

G. L. GIFFORD.
Plow.

No. 213,410. Patented Mar. 18, 1879.

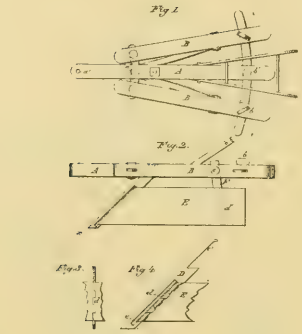


WITNESSES:
Thomas M. Cook
L. Sequard

INVENTOR:
G. L. Gifford
BY Munn & Co
ATTORNEYS.

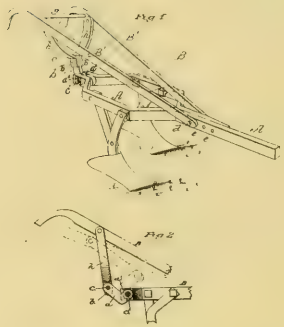
O. A. OBAIN.
Cultivator.

No. 215,885. Patented May 27, 1879.



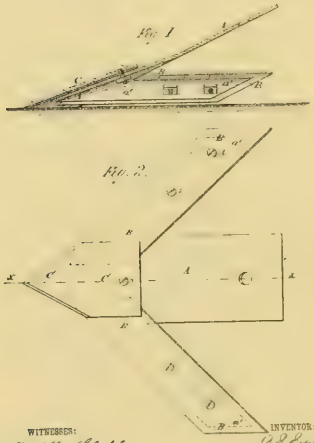
G. W. PETERSON.
Cultivator.

No. 216,449. Patented June 10, 1879.



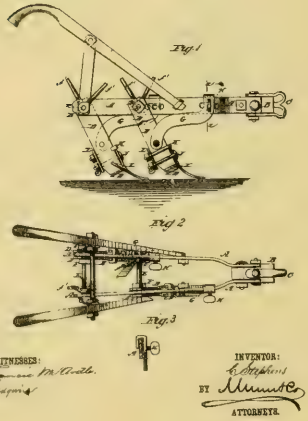
C. E. ESTES.
Cotton Wing-Sweep.

No. 217,597. Patented July 15, 1879.



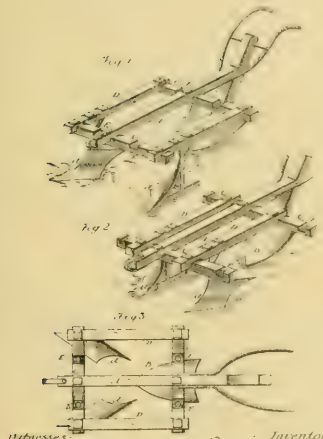
C. STEPHENS
Cultivator.

No. 218,407. Patented Aug 12, 1879.



J. L. BUSKETT.
Cultivator.

No. 218,482. Patented Aug. 12, 1879.

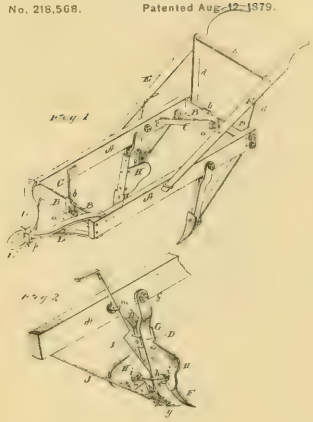


Witnesses:
Inventor:
James L. Buskett
by his Atty
H. H. Brown & Co.

2 Sheets—Sh

W. J. PIRKLE
Plow.

No. 218,568. Patented Aug. 12, 1879.

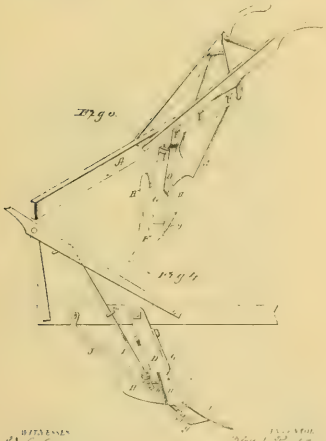


WITNESSES
INVENTOR
By
ATTORNEYS

2 Sheets—Sheet 2

W. J. PIRKLE.
Plow.

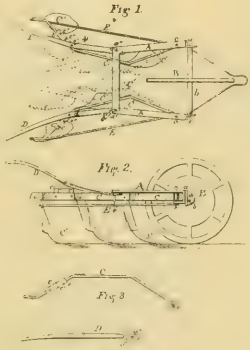
No. 218,568. Patented Aug. 12, 1879.



WITNESSES
INVENTOR
By
ATTORNEYS

J. J. DEAL.
Cultivator.

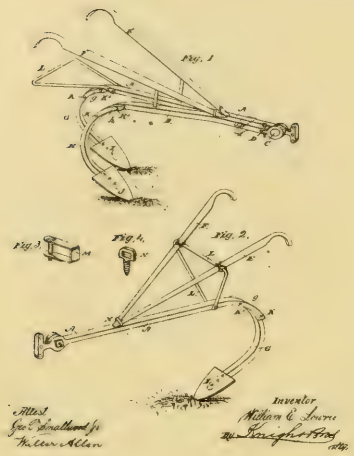
No. 219,227. Patented Sept. 2, 1879.



WITNESSES
INVENTOR

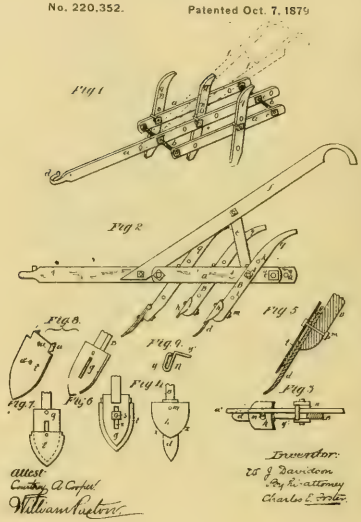
W. E. LOWRIE.
Plow or Cultivator.

No. 219,745. Patented Sept. 16, 1879.



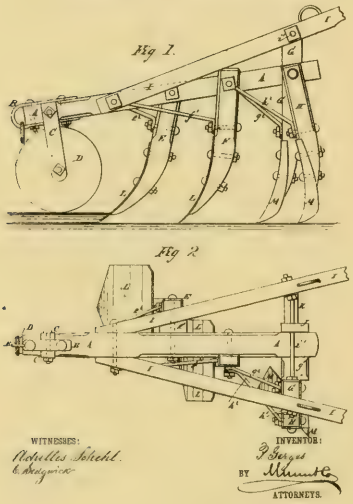
W. J. DAVIDSON.
Shovel-Plow

No. 220,352. Patented Oct. 7, 1879



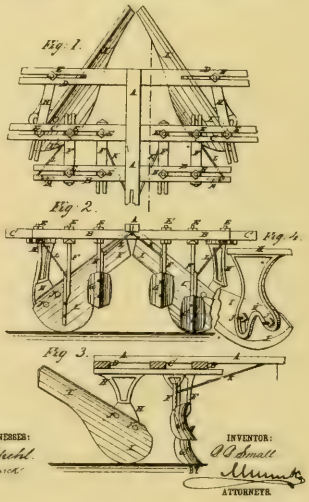
P. GERGES.
Cultivator.

No. 221,803. Patented Nov. 18, 1879.



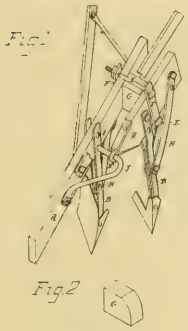
B. B. SMALL.
Combined Horse Hoe and Cultivator

No. 222,087. Patented Nov. 25, 1879.



J. M. RICHARDS.
Cotton-Scraper.

No. 222,267. Patented Dec. 9, 1879.

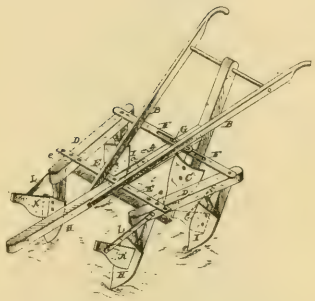


Attest:
William Pastor.
Courtney A. Cofer

Inventor:
J. M. Richards
By his Attorney
Charles E. Foote

M. HOLDREDGE.
Cultivator.

No. 222,783. Patented Dec. 23, 1879.

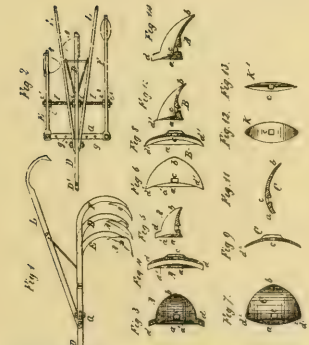


WITNESSES
P. L. Emery
E. H. Bradford.

INVENTOR
M. Holdredge.
By H. Ellis,
ATTORNEY

G. W. GOODWYN.
Cultivator and Cultivator Teeth.

No. 222,893. Patented Dec. 23, 1879.

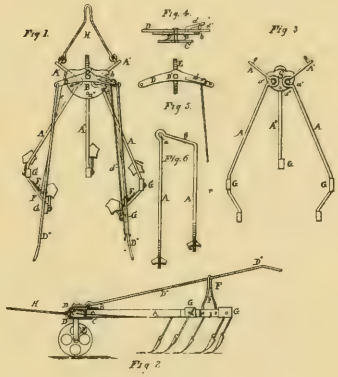


Witness
Alf. Elmer
Jno. Williams

Inventor
Geo. W. Goodwyn
by Henry Orth
Atty

J. J. DEAL.
Cultivator.

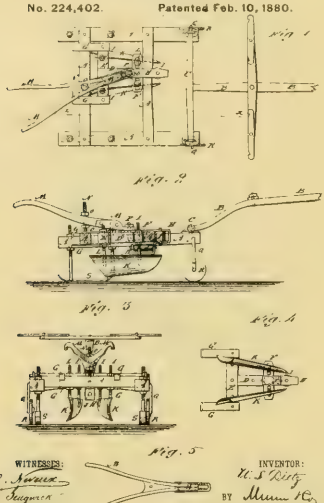
No. 223,713. Patented Jan. 20, 1880.



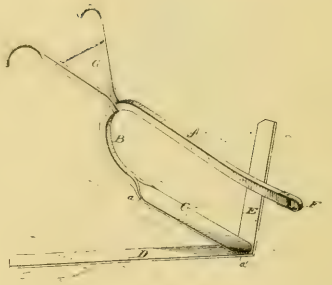
Attest
R. P. Edwards
Jos. H. Boyd

Inventor
Jesse J. Deal
by W. H. Langhorne
Atty

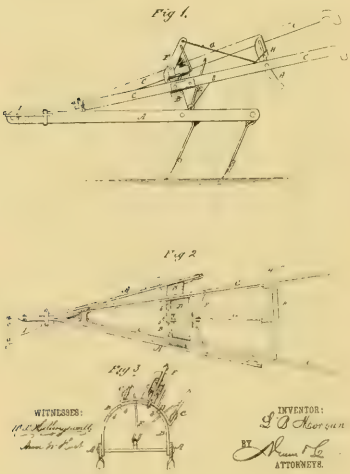
W. L. DIETZ.
Broom-Corn and Cotton-Scraper and Cultivator.
No. 224,402. Patented Feb. 10, 1880.



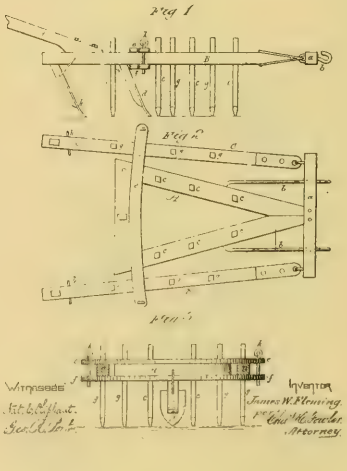
A. AKER
Cultivator.
No. 225,264. Patented Mar. 9, 1880.



L. B. MORGAN.
Plow and Cultivator Handles.
No. 226,535. Patented April 13, 1880.

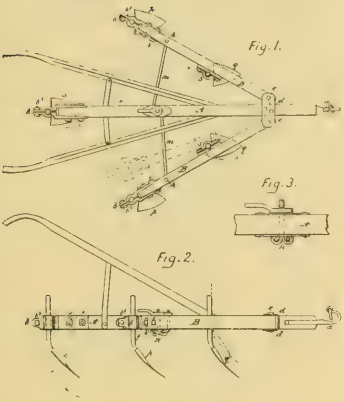


(No Model.)
J. W. FLEMING.
Combined Cultivator and Harrow.
No. 226,656. Patented April 20, 1880.



J. A. GOGEL.
Cultivator.

No. 227,687. Patented May 18, 1880.



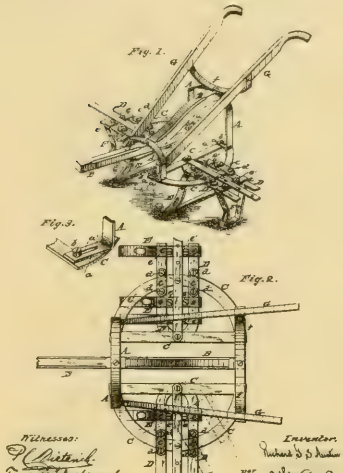
Witnesses:
D. Hoel
Geo. Baeon

Inventor:
John A. Gogel
By H. Henri Smith
Attorney.

(No Model.)

R. G. S. AUSTIN.
Cotton Cultivator

No. 228,853. Patented June 15, 1880.



Witnesses:
P. Quittnik
Fred. F. Bulenet

Inventor.
Richard G. S. Austin
per
C. H. Duell
Attorneys.

(No Model.)

R. A. JOHNSON.
Cotton Cultivator.

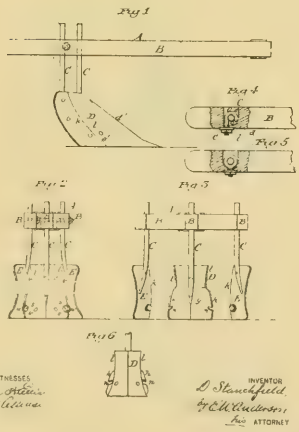
No. 229,318. Patented June 29, 1880.

Witnesses:
W. H. Mortimer
W. A. Kum

Inventor:
R. A. Johnson,
by
F. A. Lehmann,
Atty.

D STANCHFIELD.
Plow.

No. 229,484. Patented June 29, 1880.

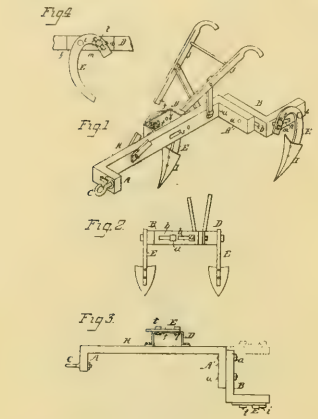


WITNESSES.
Ad. Stein
W. Willner

INVENTOR.
D. Stanchfield.
by C. H. Duell Anderson,
Jun. ATTORNEY

W. J. DAVIDSON.
Plow and Cultivator.

No. 231,701. Patented Aug. 31, 1880.



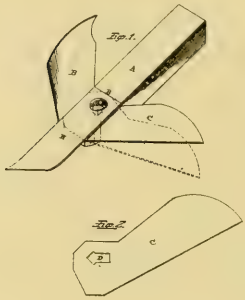
Attest.
Anthony Q. Cofer
William Paston

W. J. Davidson
By his attorney
Charles E. Foster

(No Model.)

E. A. JOHNSON.
Cultivator and Scraper.

No. 232,133. Patented Sept. 14, 1880.



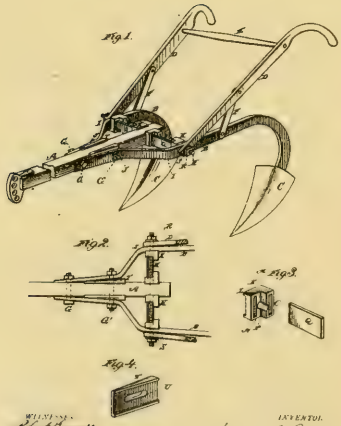
Witnesses—
W. H. Holmes
Chas. H. Schaum

Inventor—
E. A. Johnson
per
F. A. Lehmann
Atty

(No Model.)

W. P. BROWN.
Plow.

No. 232,450. Patented Sept. 21, 1880.



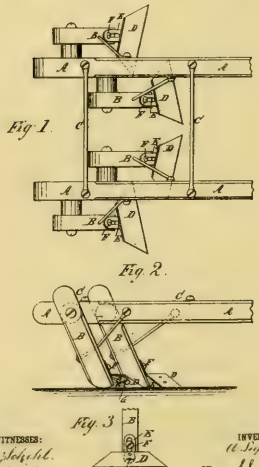
WITNESSES:
H. H. Everett
Jno. W. Shelby

Fig. 1 No. 1 Model

INVENTOR:
William P. Brown
J. Lemuel Smith

A. LUPTON.
Cultivator.

No. 232,993. Patented Oct. 5, 1880.



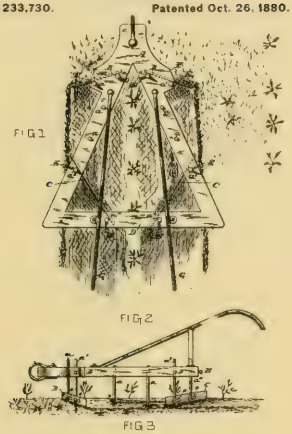
WITNESSES:
A. Schehl.
C. Sulgrove.

INVENTOR:
A. Lupton
BY Munn & Co
ATTORNEYS.

(Model.)

S. L. COGGIN.
Harrow and Cultivator.

No. 233,730. Patented Oct. 26, 1880.



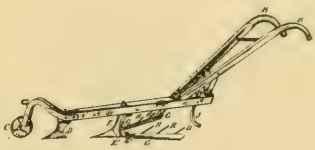
Witnesses
Geo. Hughes
J. H. McDonald.

Inventor:
S. L. Coggin
J. H. Gallaway
By
Att'y

(No Model.)

O. W. GOSLEE
Tobacco Hoe.

No. 233,849. Patented Nov. 2, 1880.



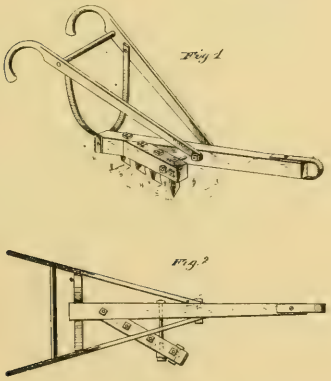
Witnesses
Maxwell R. Curtis
Milnor Horton

Inventor
Orson W. Goslee
by Thos. G. Ellis, Attorney

(No Model.)

S. C. HUNTER.
Cultivator.

No. 235,087. Patented Dec. 7, 1880.



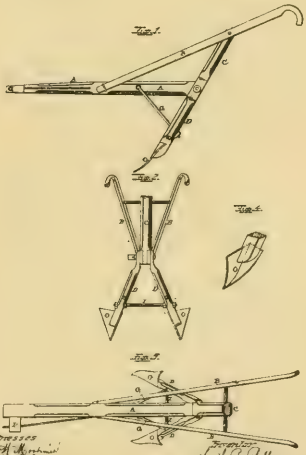
Witnesses.
F. L. Ourand
Alex Mohn

Inventor
Silas C. Hunter,
by A. L. Smith.
Atty.

(No Model.)

S. R. BELL.
Cultivator.

No. 235,986. Patented Dec. 28, 1880.



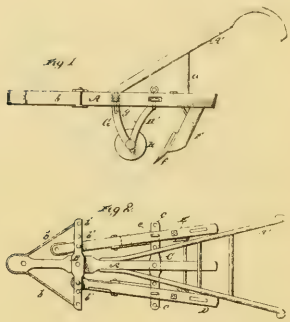
Witnesses
Chas. F. Merriam
Wm. H. Kerr

Inventor
Saml. R. Bell
by
F. A. Lehmann Atty

(No Model.)

J. F. LEWIS.
Combined Cultivator and Scraper.

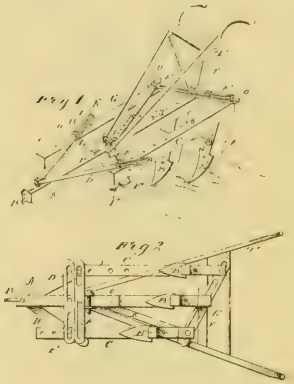
No. 236,343. Patented Jan. 4, 1881.



(No Model.)

F. M. LESLIE.
Cultivator

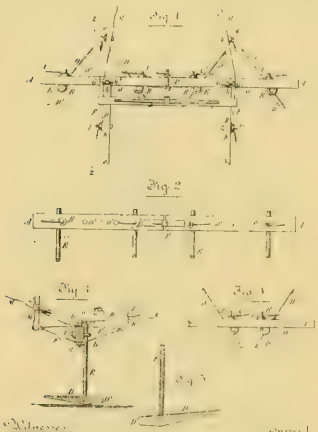
No. 238,132. Patented Feb. 22, 1881.



(No Model.)

A. CURRIER.
Hoeing Machine.

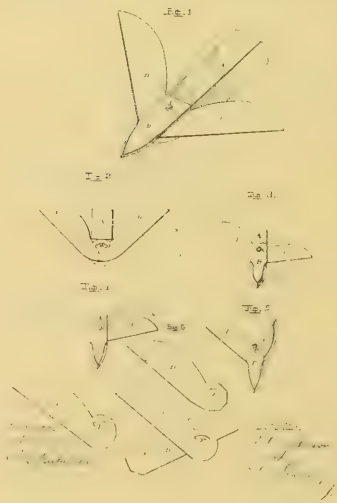
No. 239,369. Patented March 29, 1881.



(No Model.)

R. A. JOHNSON.
Cultivator

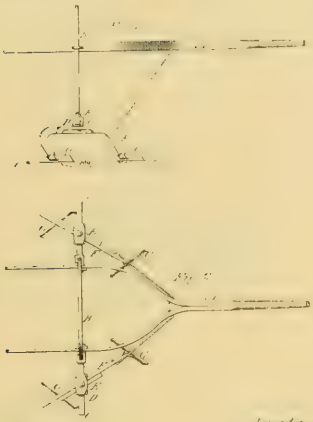
No. 239,798. Patented April 5, 1881.



Model

J. L. SHAW.
Cultivator.

No. 240,192. Patented April 12, 1881.



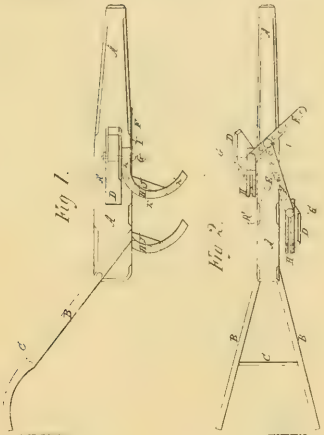
Witnesses:
John M. Lee
R. T. Bowman

Inventor
James L. Shaw

(No Model.)

A. BEARD.
Double Plow.

No. 240,642. Patented April 26, 1881.



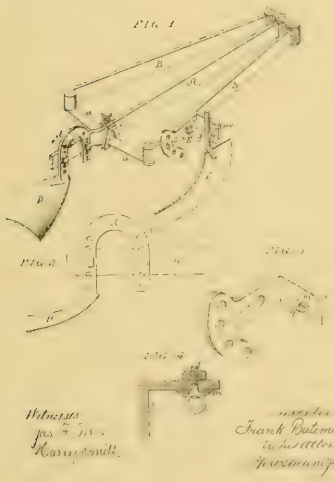
WITNESSES:
A. Schenk
C. Sedgwick

INVENTOR:
A. Beard
BY Munn & Co.
ATTORNEYS.

(No Model.)

F. BATEMAN.
Cultivator.

No. 240,945. Patented May 3, 1881.



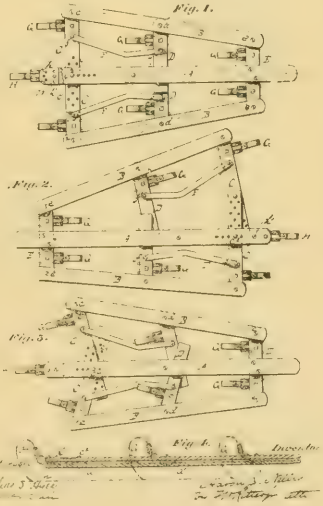
Witnesses
Jas. F. Ivy
Harry Mills

Inventor
Frank Bateman
by his Attorneys
Dewey & Co.

(Model.)

A. J. NELLIS.
Cultivator.

No. 241,697. Patented May 17, 1881.

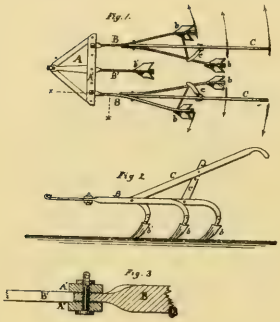


Witnesses
Chas. S. Otis
Chas. E. Allen

Inventor
Aaron J. Nellis
by his Attorneys
Dewey & Co.

J. J. DEAL.
Corn Cultivator.

No. 242,279. Patented May 31, 1881.



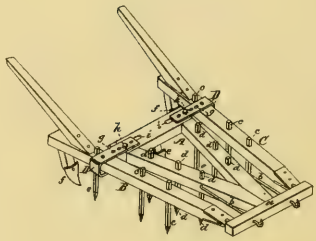
Witnesses:
Thos. A. Houghton
E. M. Edwards

Inventor:
Jonah J. Deal
by Wm. A. Singleton
Atty

(No Model.)

J. W. FLEMING.
Combined Cultivator and Harrow.

No. 241,855. Patented May 24, 188



Witnesses:
H. C. Curtiss
Clarence L. Funk

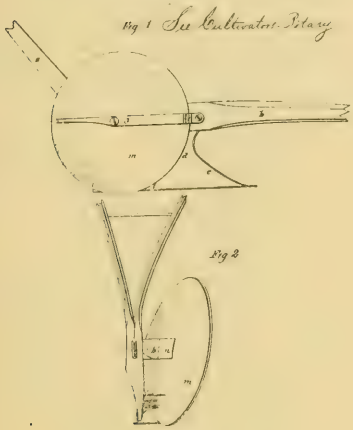
Inventor:
James W. Fleming
per Chas. H. Fowler
Attorney

G Page.

Revolving Moldboard.

No 5,218. Patented Aug 7, 1847.

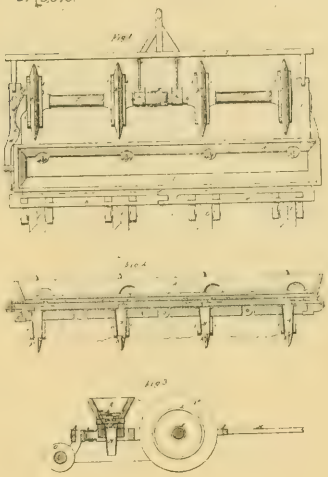
Fig 1 See Cultivator Rotary



M. Sutterlee.

Grain Drill

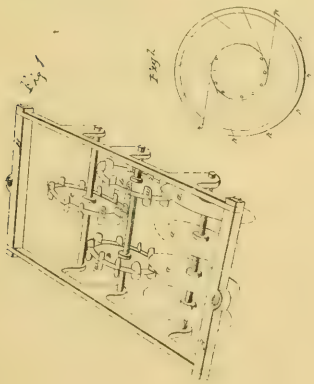
No 9,879. Patented Jul 26, 1853



H. M. Johnson

Rotary Cultivator

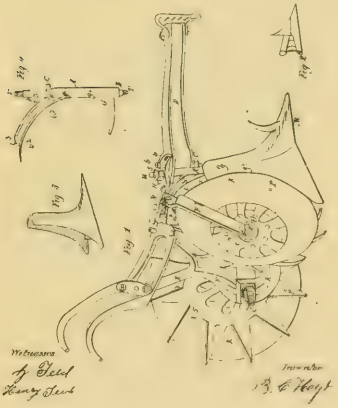
No 11,162. Patented Jun 27, 1854.



B. C. Hoyt.

Revolving Moldboard

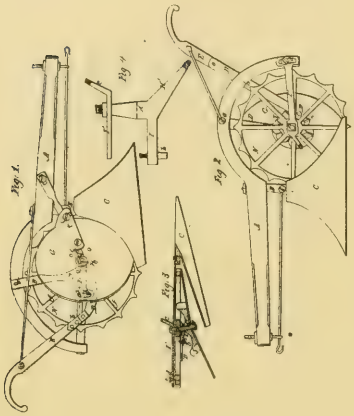
No 15,654. Patented Sept 2, 1856.



B. C. Hoyt.

Ferrotype-Machine.

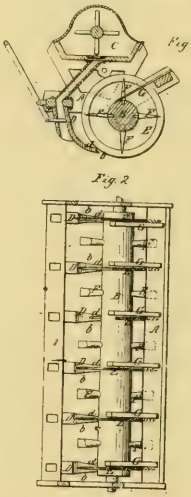
No. 184. Patented Jan 5, 1858.



F. Emmert.

Grain Drill.

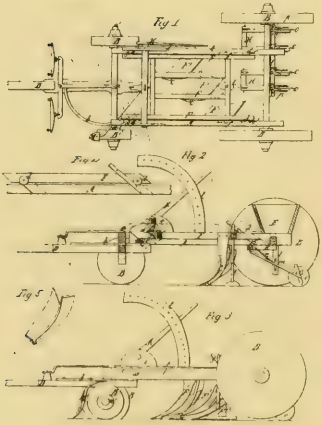
No. 17,144. Patented May 28, 1857.



J. Lee.

Wheel Plow.

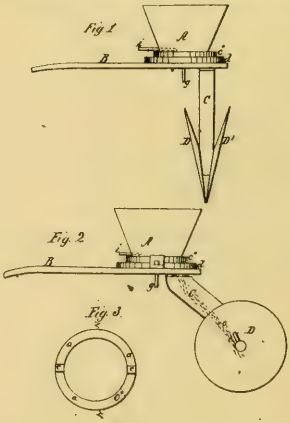
No. 18,698. Patented Nov. 24, 1857.



J. Lee.

Seed Planter.

No. 18,821 Patented Dec. 8, 1857.



O. Coe

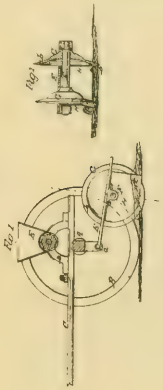
Rotary Harrow.

No. 19,484 Patented Mar. 6, 1859

McCormick & Porter

Grain Drill.

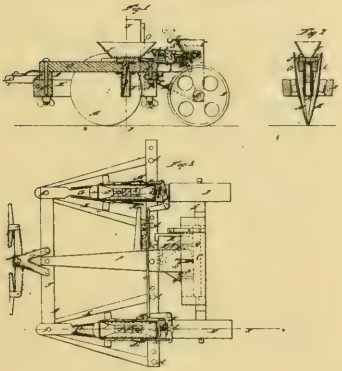
No. 21,349. Patented Aug. 31, 1858.



J. D. Smith.

Corn Planter.

No. 21,376. Patented Aug. 31, 1858.

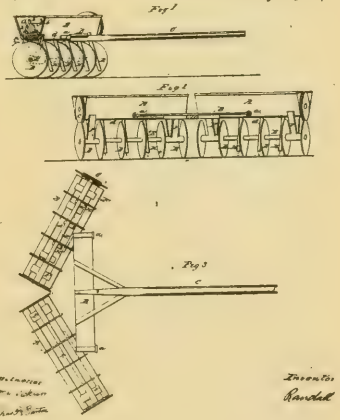


S. G. Randall

Grain Drill.

25,443. Sept. 13, 1859.

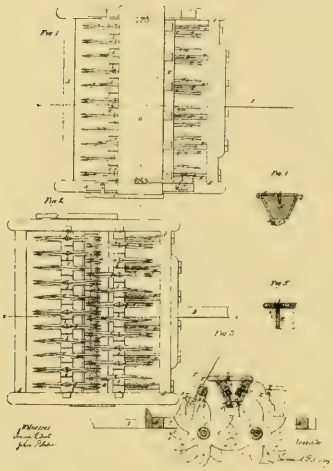
No. 3,464. Reissued May 26, 1869.



S. D. Tracy.

Revolving Harrow.

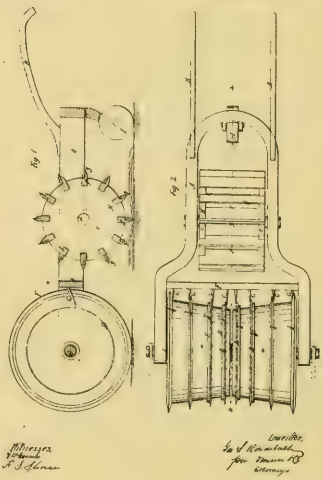
No. 30,630 Patented Dec. 4th 1860



G. S. Hawkhirst

Disk Cutter

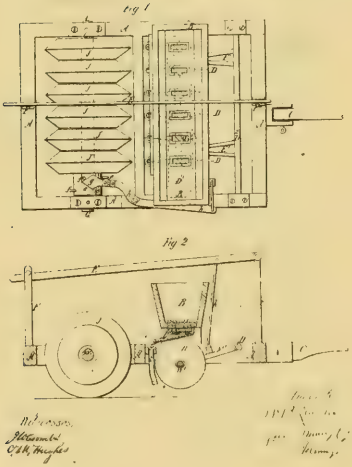
No. 36,645 Patented Oct. 7 1862



W. F. [illegible]

[illegible]

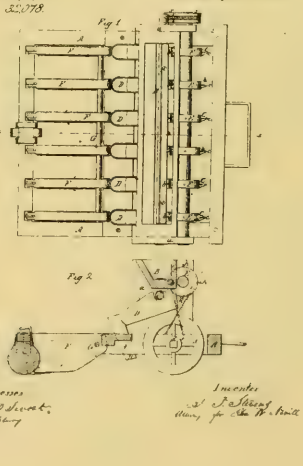
No. 85,[illegible] 3,089. Patented [illegible] 8, 1860



C. W. Nevill.

Grain Drill.

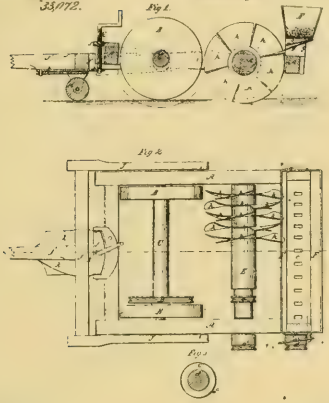
No. 31,074 32,078. Patented Oct. 15, 1861



H. N. Dalton.

Grain Drill.

No. 2,053. 33,172. Patented Aug. 20, 1861.



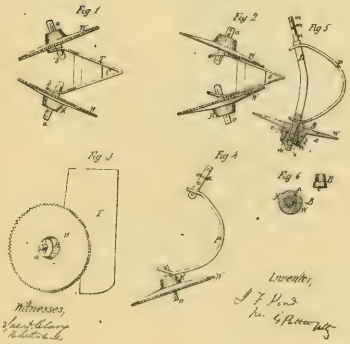
Witnesses,

Inventor,

J. F. Pond,

Grain Drill.

No. 9099. 33,103. Patented Aug. 20, 1861.



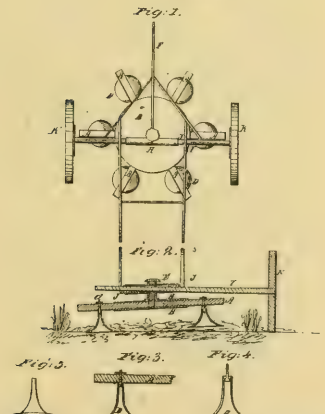
Witnesses,

Inventor,

A. W. Olds.

Cultivator.

No. 36,724. Patented Oct. 21, 1862.



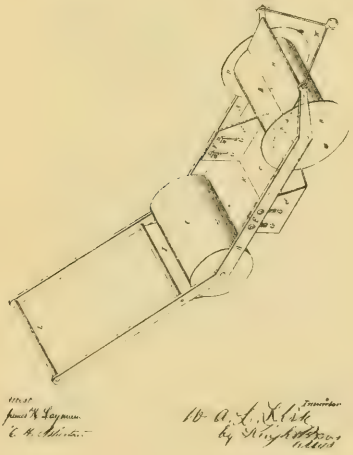
Witnesses

Inventor

W. A. L. Kirk,

Sod Cutter

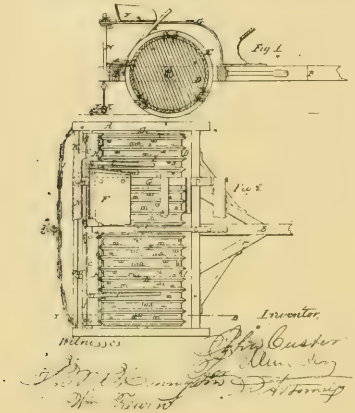
No. 45,986. Patented Jan. 17, 1865.



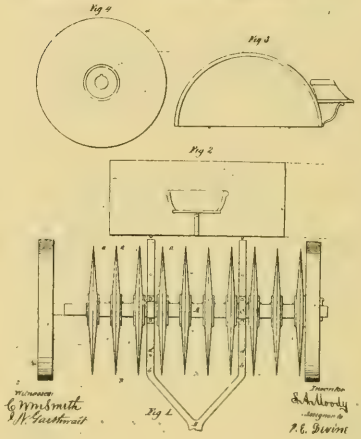
Witnesses

Inventor

J. Custer.
Cultivator.
No. 55,826. Patented June 26, 1866.



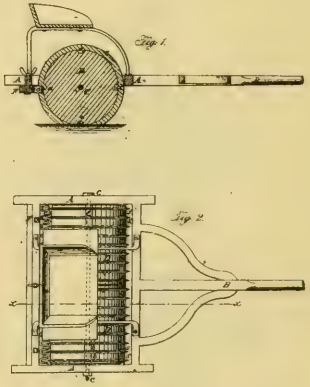
S. A. Moody
Sod Cutter.
No. 58,951. Patented Oct 16, 1866



M. L. ROBERTS.
Revolving Moldboard.
No. 62,367. Patented Feb. 26, 1867.

Witnesses.
Inventor.
M. L. Roberts
by J. Fraser Roe
Attys

J. CUSTER.
Land-Roller.
No. 63,224. Patented Mar. 26, 1867.

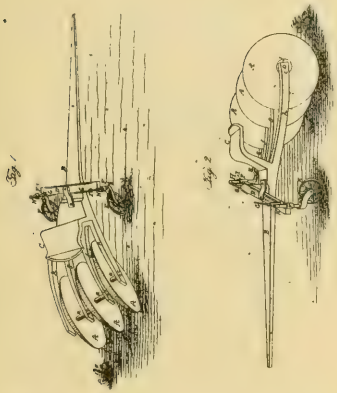


Witnesses.
Inventor.
Attorney

M. A. & I. M. CRAVATH.

Rotary Cultivator.

No. 66,802. Patented July 16, 1867.



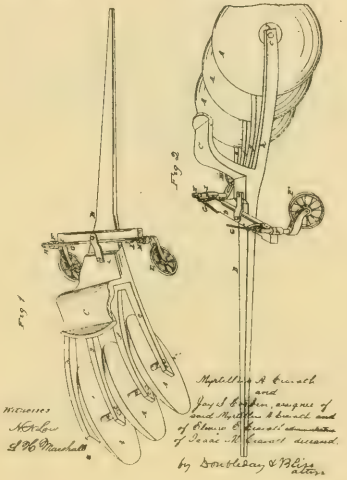
Witnesses:
L. B. Lawton
H. B. Nott

Inventor.
Mytilla M. Cravath
I. M. Cravath

M. A. CRAVATH & I. M. CRAVATH, dec'd.,
J. B. Corbin assignee of said M. A. Cravath and R. R. Cravath, administrators of I. M. Cravath.

Revolving Plow.

No. 9,603. Reissued March 15, 1881.



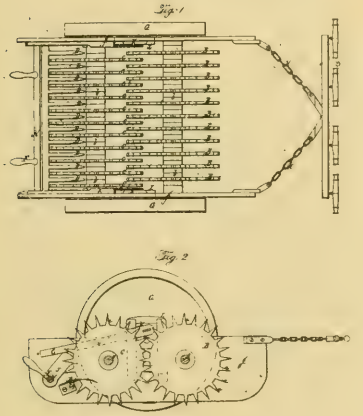
Witnesses
N. Kelsey
L. W. Marshall

Mytilla M. Cravath and Joy S. Corbin, assignee of said Mytilla M. Cravath and of Rhoda R. Cravath's administrator of Isaac M. Cravath deceased.
by Southgate & Bliss atty.

I. COLEMAN.

Revolving-Harrow.

No. 67,634. Patented Aug. 13, 1867.



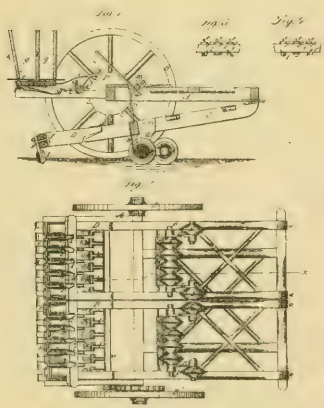
Witnesses.
Rd. R. Rhoes
Calvin Byron

Inventor.
I. Coleman

E. RITSON.

Grain Drill.

No. 69,484. Patented Oct. 1, 1867.



Witnesses.
Chas. Fuchs.
J. W. Norris.

Inventor.
E. Ritson
Per Munn & Co
Atty.

Jay Emerson's Rotating Tooth Cultivator.

71589

PATENTED DEC 3 1867

Witnesses
Thomas Bell

Inventor
Jay Emerson

E. Crane.
Scarifying the Soil Preparatory to Planting.
No. 73876 Patented Jan 28 1868

Fig 1 Fig 4 Fig 2 Fig 3

Witnesses
Edm. James
John D. Blair

Inventor
Elisha Crane.
per Holmead & Hollingshead
attorneys

E. CRANE.
Assignor to C. La Dow.
Harrow-Cultivator.
No. 8,260. Reissued May 28, 1878.

Fig. 1. Fig. 4. Fig. 2. Fig. 5. Fig. 3.

Attest
Chas. Emery Clum
Alex. T. Langford

Inventor.
Elisha Crane
by
W. H. Babcock
Atty

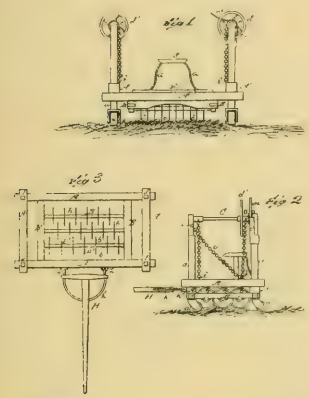
E. Crane.
Revolving Harrow.
No. 76,404. Patented Apr. 7, 1868.

Fig 1 Fig 3 Fig 2

Witnesses,
John D. Blair
Edm. James

Inventor
Elisha Crane
per Holmead & Hollingshead
attorney

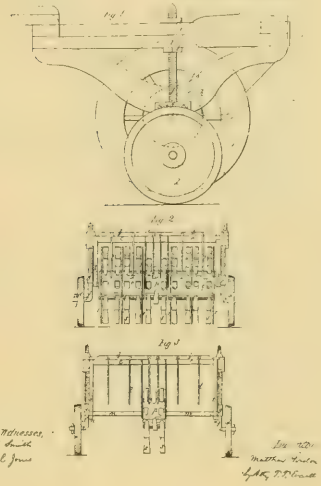
E. CRANE.
Assignor to C. La Dow.
Harrow-Cultivator.
No. 8,261. Reissued May 28, 1878.



Witnesses
Wm. S. Shaller

Inventor
Elisha Crane
by W. Schenck
Attorney

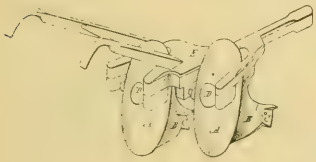
N. Fulton.
Cord Crusher & Stalk Cutter
No. 76,920 Patented Apr. 21, 1868.



Witnesses,
J. Cook
L. C. Jones

Inventor
Nathan Fulton
by Geo. T. Ellis

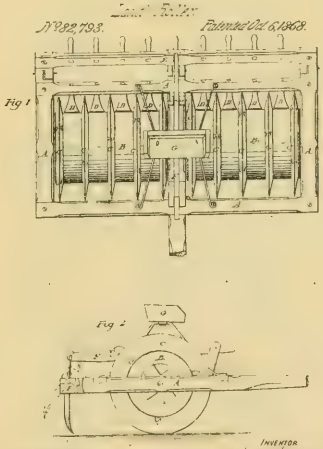
J. S. Godfrey.
Horse-hoe - Mold-board
No. 77,184 Patented Apr. 28, 1868



Witnesses
A. H. Minnaman
John Mercer

Inventor
Joseph S. Godfrey
by his Att'y
M. C. Sprague

J. Brewer.
Land Roller
No. 82,793. Patented Oct. 6, 1868.



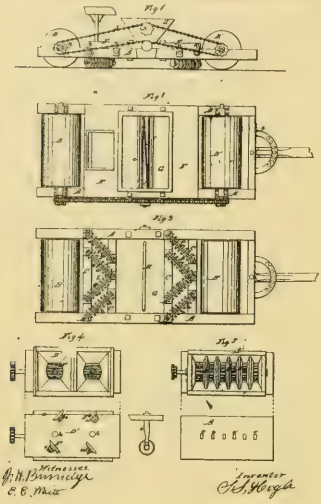
Witnesses
J. Kay Fox
Johnson Brewer

Inventor
John Brewer
per Brewer & Mason
Attys

S. S. Hoyle.

Grain Drill.

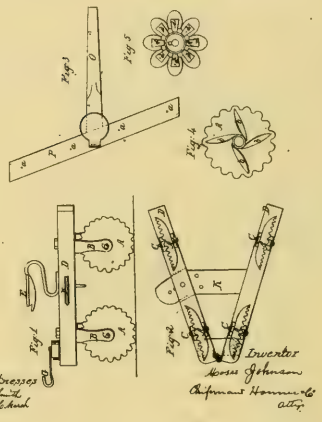
No. 84,121. Patented Nov. 17, 1868.



M. Johnson.

Rotary Harrow.

No. 85,461. Patented Dec. 29, 1868.

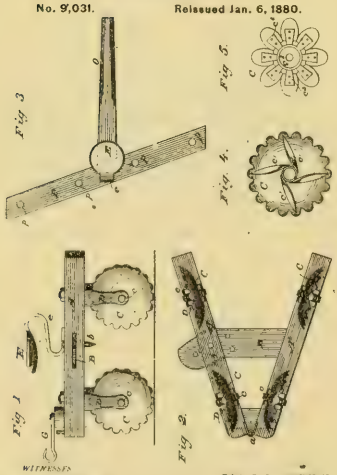


M. JOHNSON,

Assignor, by mesne assignments, to C. La Dow.

Plow.

No. 9,031. Reissued Jan. 6, 1880.

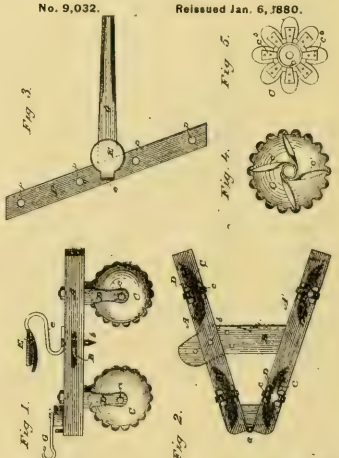


M JOHNSON,

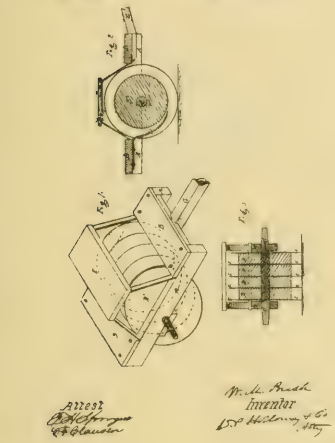
Assignor, by mesne assignments, to C. La Dow

Plow.

No. 9,032. Reissued Jan. 6, 1880.



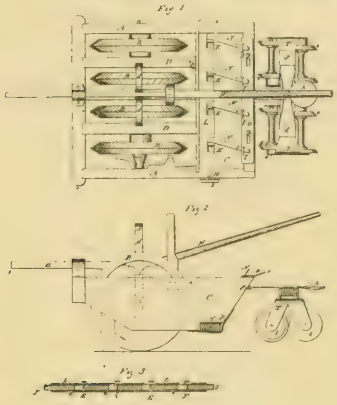
W. M. Frost,
Land Roller.
No. 85,830. Patented Jan. 5, 1869.



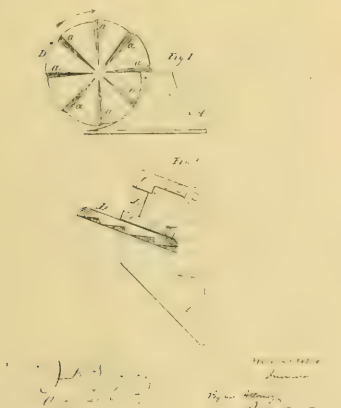
Witness,
[illegible]

W. M. Frost
Inventor
[illegible] Attorney

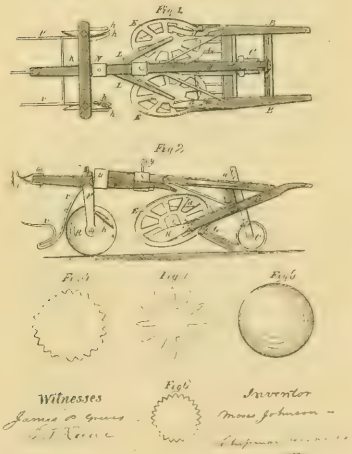
O. F. [illegible]
[illegible]
No. 92,770 Patented Jan. 11, 1869.



N. Noble,
Plow.
No. 92,992. Patented July 27, 1869.



2 Sheets, Sheet 1
M. Johnson,
Potato Digger
No. 93,307. Patented Aug. 3, 1869.



Witnesses
James [illegible]
[illegible]

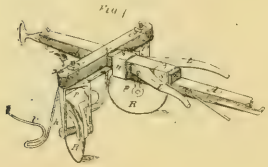
Inventor
Moses Johnson
[illegible]
Atty.

2 Sheets, Sheet 1

M. Johnson,

Potato Digger.

No. 94307. Patented Aug. 3, 1869.

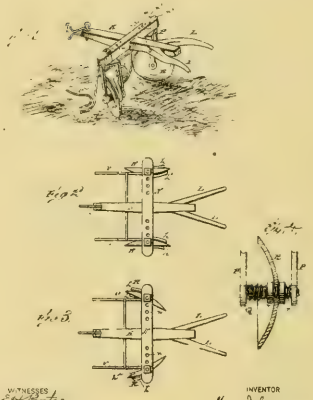


Witnesses,
E. W. Anderson.
J. W. Kane

Inventor
Moses Johnson
Chapman, Hosmer & Co.
Attys.

M. JOHNSON
Assignor by mesne assignments to C. La Dow
Rotary-Cultivator.

No 6,222 Reissued May 7, 1878.

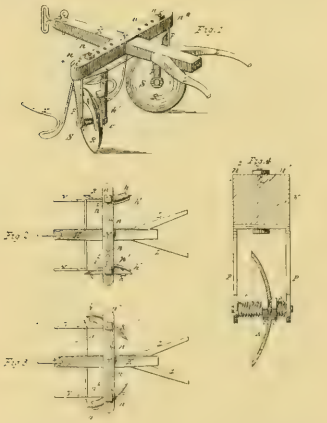


WITNESSES
C. H. Butler
Eugene Adelmann

INVENTOR
Moses Johnson
By
W. H. Babcock
ATTORNEY

M. JOHNSON,
Assignor, by mesne assignments, to C. La Dow
Rotary-Cultivator.

No. 9,168. Reissued April 20, 1880.

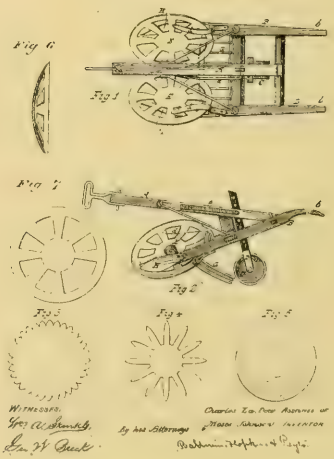


WITNESSES
Geo. A. Schmidt
Geo. W. Beck

Charles La Dow Assignee of
Moses Johnson INVENTOR
By his Attorneys
Baldwin, Hopkins & Peyton

M. JOHNSON,
Assignor, by mesne assignments, to C. La Dow
Rotary-Cultivator.

No. 9,169. Reissued April 20, 1880.



WITNESSES.
Geo. A. Schmidt
Geo. W. Beck

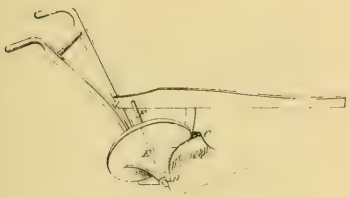
By his Attorneys

Charles La Dow Assignee of
Moses Johnson INVENTOR
Baldwin, Hopkins & Peyton

W. B. West.

Plow.

No. 95,960 Patented Oct. 19, 1869



Witnesses
O. Kirchman
Jno. F. Brooks

Inventor
W. B. West.
per Munn & Co.
Attys

M. Johnson,

Potato Digger.

No. 96,001. Patented Oct. 19, 1869

Fig. 1

Fig. 2

Fig. 3.

Fig. 4.

Fig. 5.

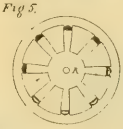


Fig. 6.

Witnesses.
E. Washington.
S. A. Kane

Inventor
Noel Nickson
Chapman Hoomes & Co.
Attorneys

F. Mistwitz,

2 Sheets, Sheet 1.

Revolving Harrow.

No. 97,680. Patented Dec. 7, 1869

Fig. 1.

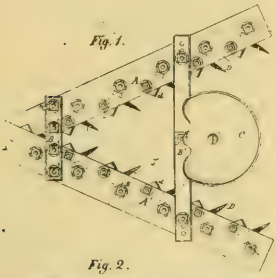


Fig. 2.

Witnesses:
Jno. Ellis
Wm. H. Delong

Inventor
Jno. Ellis
Wm. H. Adams

F. Mistwitz,

2 Sheets, Sheet 2.

Revolving Harrow.

No. 97,680. Patented Dec. 7, 1869.

Fig. 3.

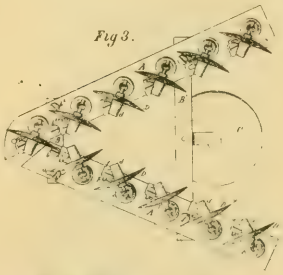


Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

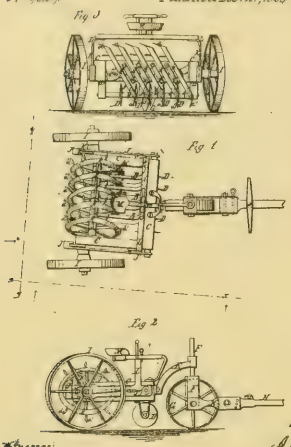
Witnesses:
Jno. Ellis
Wm. H. Delong

Inventor
Jno. Ellis
Wm. H. Adams

A. Bondeli.

Plowing Mach.

No. 98,075. Patented Dec. 21, 1869.



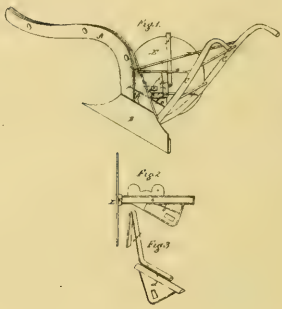
Witnesses;
A. W. Almquist
Alex. F. Roberts

Inventor,
A. Bondeli.
Munn & Co
Attorneys

R. E. Strait,

Plow.

No. 98,120. Patented Dec. 21, 1869.



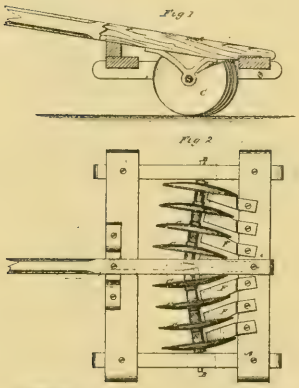
Witnesses
John A. Ellis
Jerrit D. Wood

Inventor
R. E. Strait
Per
J. L. Alexander
Atty.

A. L. P. Vairin.

Wheel Harrow.

No. 99,647. Patented Jan. 4, 1870.



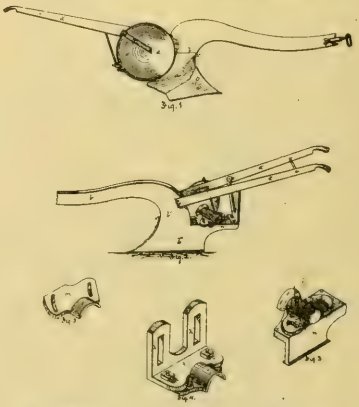
Witnesses:
C. Mills
Alex. F. Roberts

Inventor:
A. L. P. Vairin
Per
Munn & Co
Attorneys.

J. S. Godfrey,

Plow Mold Board.

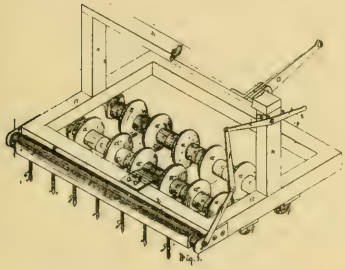
No. 101,356. Patented Mar. 29, 1870.



Witnesses:
R. Ellis Monroe
Geo. Mann

Inventor:
Joseph S. Godfrey
by Bakewell & Christy,
his Attys.

Schroeffel & Bell,
Revolving Harrow.
No. 101,510. Patented Apr. 5, 1870.

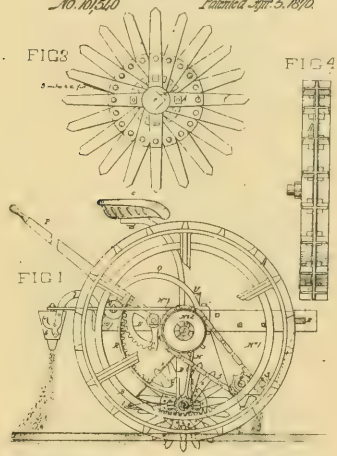


Witnesses:
Thos. A. Kew
R. C. Brownell

Inventors:
John Schroeffel,
William Bell,
by Bakewell & Serrill
their Attys.

A. L. Traveau,
Revolving Harrow.
No. 101,510. Patented Apr. 5, 1870.

Sheet 1.

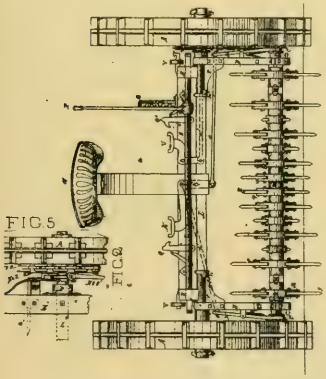


WITNESSES.
Chas. Morrison

INVENTOR.
Augustus L. Traveau

A. L. Traveau,
Revolving Harrow.
No. 101,510. Patented Apr. 5, 1870.

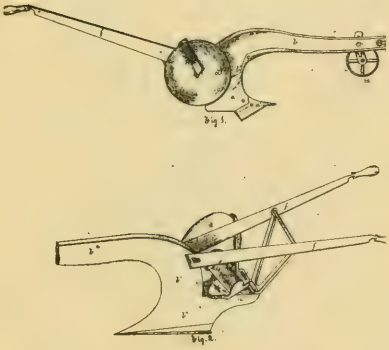
Sheet 2.



WITNESSES

INVENTOR.
Augustus L. Traveau

J. S. Godfrey,
Plow. Mold board.
No. 105,446. Patented July 19, 1870.



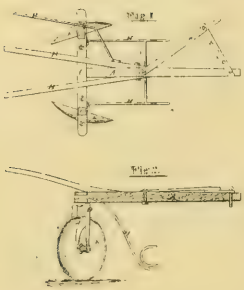
Witnesses:
R. C. Brownell
Thos. Kew

Inventor:
Joseph S. Godfrey,
by Bakewell & Serrill
his Attys.

M. Johnson,

Cultivator.

No. 109,560. Patented Nov. 29, 1870.



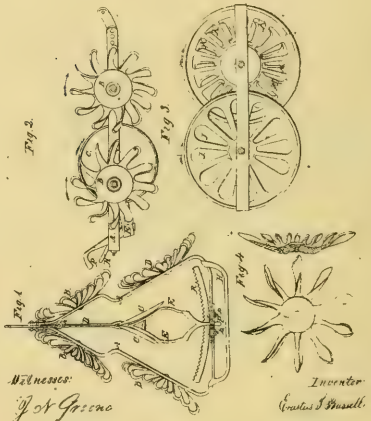
Witnesses:
[illegible]
[illegible]

Inventor:
Mark Johnson
[illegible]
Attorneys

E. T. Russell.

Rotary Harrow.

No. 106,118. Patented Aug. 9, 1870.



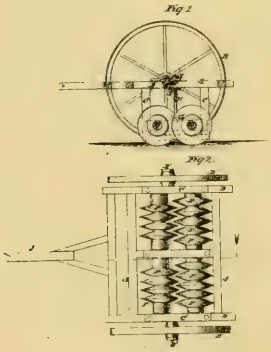
Witnesses:
J. N. Greene
J. Pickerill

Inventor
Erastus T. Russell.

M. Fenn,

Land Roller.

No. 107,267. Patented Sept. 13, 1870.



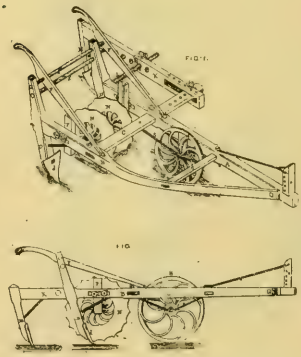
Witnesses:
[illegible]
[illegible]

Inventor:
J. M. Russ
Per M. Munn
Attorneys.

[illegible]

Cultivator.

No. 109,777. Patented Dec. 27, 1870.



Witnesses
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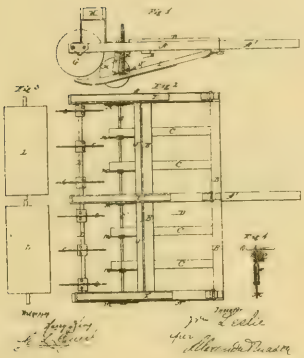
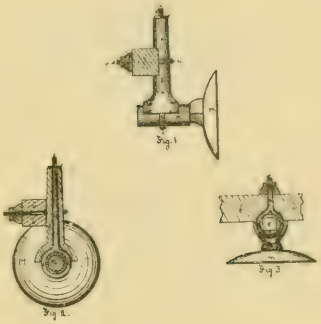
[illegible]

[illegible]

J. S. Godfrey.
Stalk Chopper.
No. 109,718. Patented Oct. 22, 1870.



J. S. Godfrey.
Mold Board.
No. 112,333. Patented Mar. 7, 1871.



Witnesses:
R. B. Hamilton
Hoe Adams

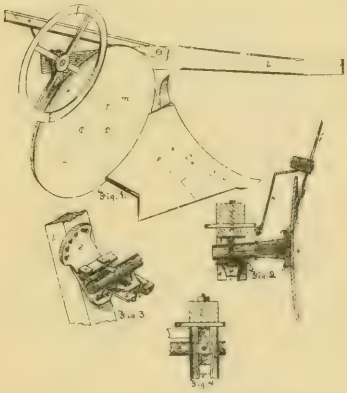
Inventor:
Joseph S. Godfrey,
by Bakewell & Christy, Attorneys
his Attys.

J. S. Godfrey.
Improved Mold Board.
No. 113,703. Patented Apr. 18, 1871.

Witnesses:
R. B. Hamilton
James J. Kay

Inventor:
Joseph S. Godfrey,
by Bakewell, Christy & Hor
his Attys.

J. S. GODFREY.
Attachment of Revolving Mold-Board for Plows.
No. 114,002. Patented April 25, 1871.



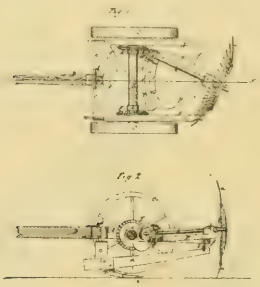
Witnesses:
R. B. Hamilton
James J. Kay

Inventor:
Joseph S. Godfrey
by Bakewell, Christy & Hor
his Attys.

S. E. ANTHONY.

Improvement in Potato-Diggers

No. 114,088. Patented April 25, 1871.



Witnesses:

Inventor:

S. E. Anthony

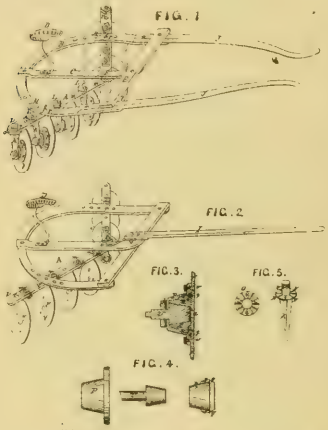
Per Munn & Co.

Attorneys.

J. F. POND.

Improvement in Revolving-Disk Harrows.

No. 114,707. Patented May 9, 1871.



WITNESSES.

Alfred Elwell

J. J. Elwell

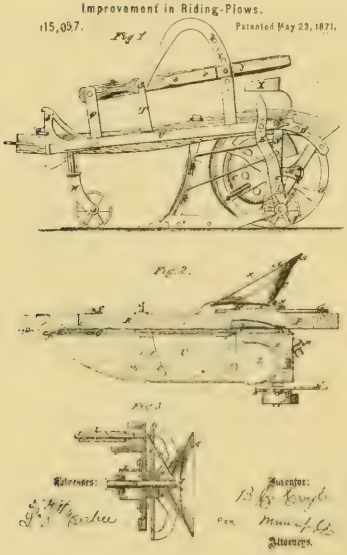
INVENTOR.

Joseph F. Pond.

B. C. HOYT.

Improvement in Riding-Plows.

115,057. Patented May 23, 1871.



Witnesses:

Inventor:

B. C. Hoyt

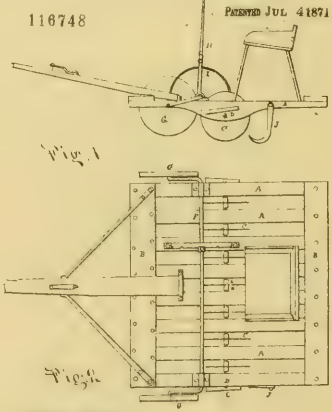
Per Munn & Co.

Attorneys.

Pool's

Improved Rotary Spd Cutter

116748 Patented Jul 4 1871

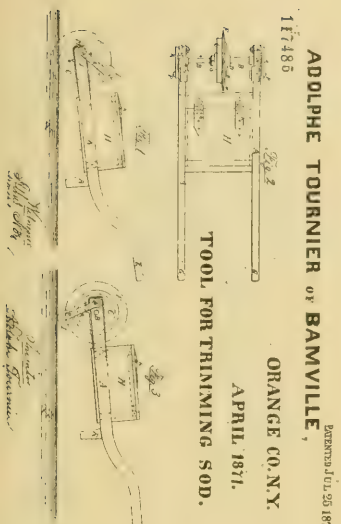


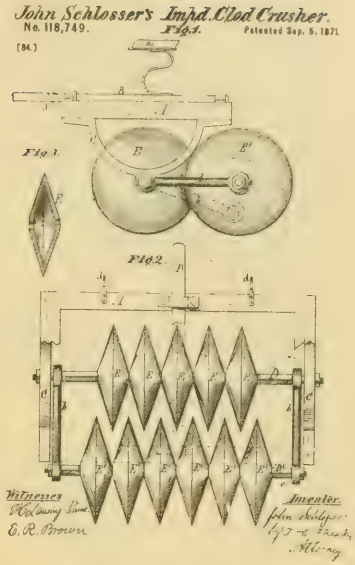
Witnesses

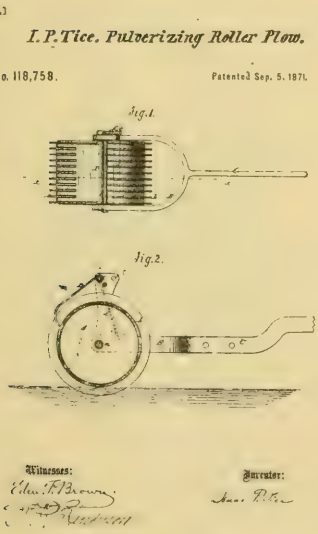
Inventor

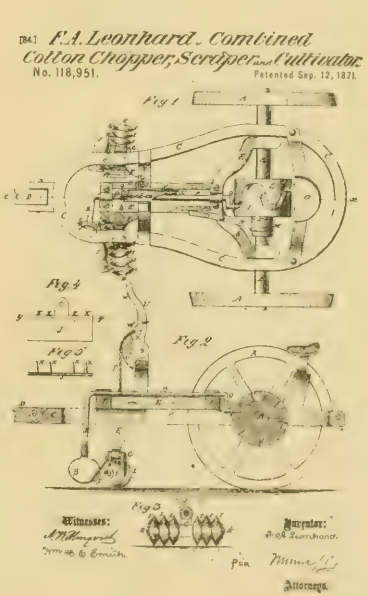
Josiah Pool

By his att, C. M. Smith

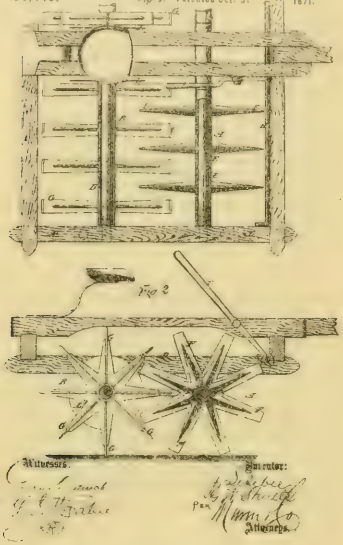

ADOLPHE TOURNIER of BAMVILLE, ORANGE CO. N.Y.
117486
APRIL 1871.
TOOL FOR TRIMMING SOD.
PATENTED JUL 25 1871


John Schlosser's Impd. Clod Crusher.
No. 118,749.
Patented Sep. 5. 1871.
[84.]
Fig. 1.
Fig. 2.
Fig. 3.
Witnesses
E. R. Brown
Inventor.

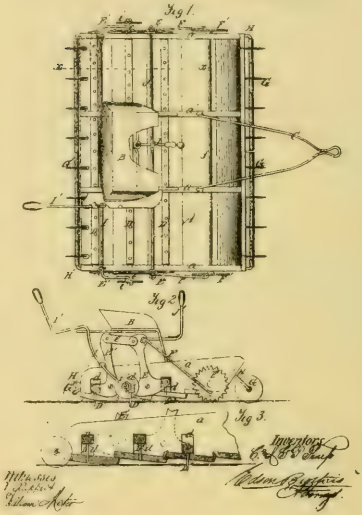

[84.]
I. P. Tice. Pulverizing Roller Plow.
No. 118,758.
Patented Sep. 5. 1871.
Fig. 1.
Fig. 2.
Witnesses:
Inventor:


[84.] F. A. Leonhard. Combined Cotton Chopper, Scraper and Cultivator.
No. 118,951.
Patented Sep. 12, 1871.
Fig. 1
Fig. 4
Fig. 5
Fig. 2
Fig. 3
Witnesses:
Inventor:
Per
Attorneys.

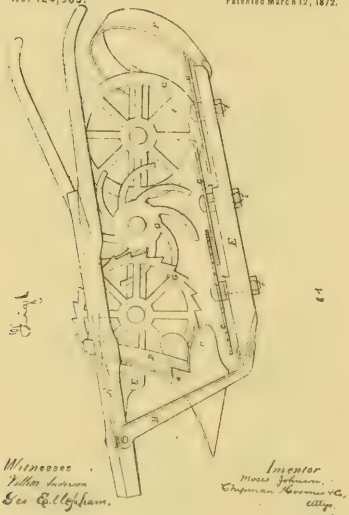
J. Leeber & G. W. Spills. Pulverizer.
No. 120,446. Patented Oct. 31 1871.



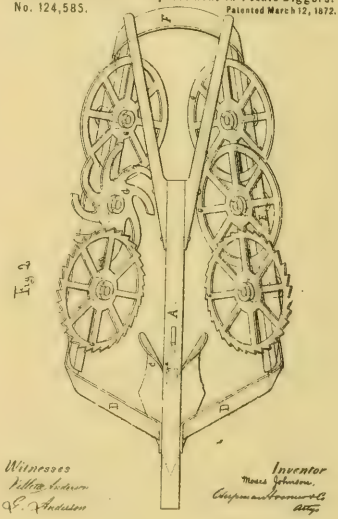
C. & G. P. THARP.
Improvement in Harrows.
No. 121,021. Patented Nov. 14, 1871



MOSES JOHNSON Improvement in Potato Diggers.
No. 124,585. Patented March 12, 1872.
2 Sheets—Sheet 1.



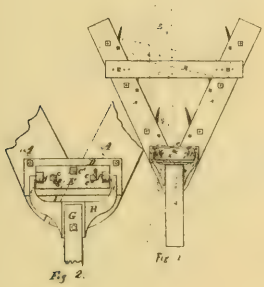
MOSES JOHNSON. Improvement in Potato Diggers.
No. 124,585. Patented March 12, 1872.
2 Sheets—Sheet 2.



GEORGE E. HUTCHINSON.

Improvement in Cultivators.

No. 125,681. Patented April 16, 1872.



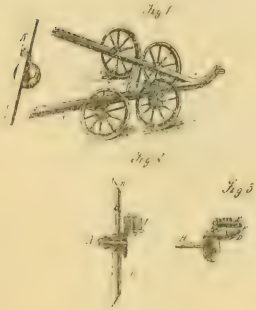
WITNESS.
Geo. Pickett
J. H. Wanamaker

INVENTOR.
Geo. E. Hutchinson

E. T. BUSSELL.

Improvement in Discs for Agricultural Implements.

No. 127,677. Patented June 11, 1872.



Witnesses
A. Rippert
C. F. Clausen

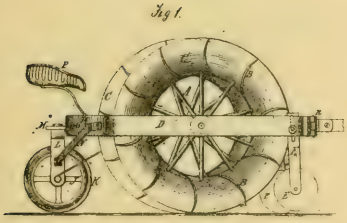
Inventor
Crustus T. Bussell
by Theodore Throgen
Attorney.

2 Sheets--Sheet 1.

E. T. BUSSELL.

Revolving Disc Plows.

No. 128,588. Patented July 2, 1872.



Witnesses
A. Rippert
Ernst Ferrel

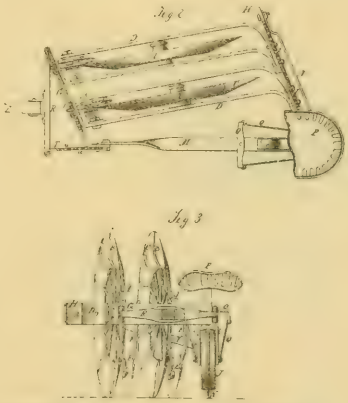
Inventor
Crustus T. Bussell
By Theodore Throgen
Attorney.

2 Sheets--Sheet 2

E. T. BUSSELL.

Revolving Disc Plows.

No. 128,588. Patented July 2, 1872



Witnesses
A. Rippert
Ernst Ferrel

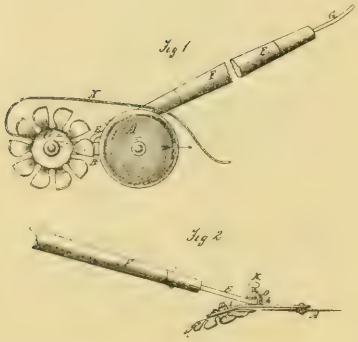
Inventor
Crustus T. Bussell
By Theodore Throgen
Attorney

3 Sheets--Sheet 1.

E. T. BUSSELL.

Cultivators.

No. 129,712. Patented July 23, 1872.



Witnesses.
A. Rapport
Joseph Tornet

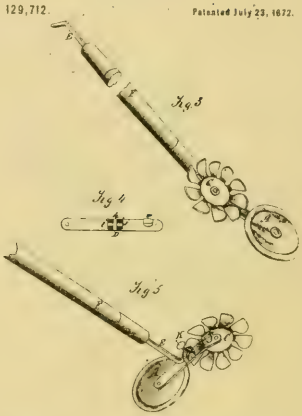
Inventor:
Erastus T. Bussell
By Theodore Mungen
Attorney

3 Sheets--Sheet 2

E. T. BUSSELL.

Cultivators.

No. 129,712. Patented July 23, 1872.



Witnesses.
A. Rapport
Joseph Tornet

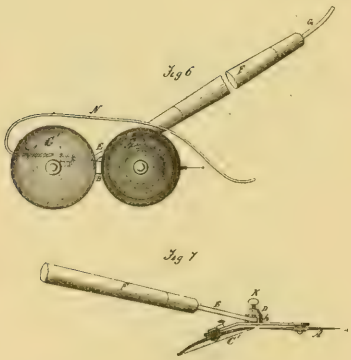
Inventor
Erastus T. Bussell
By Theodore Mungen
Attorney

3 Sheets--Sheet 3.

E. T. BUSSELL.

Cultivators.

No. 129,712. Patented July 23, 1872.



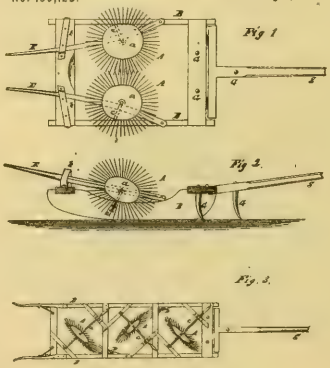
Witnesses
A. Rapport
Richard Cromwell

Inventor.
Erastus T. Bussell
By Theodore Mungen
Attorney

B. F. GREEN

Improvement in Potato-Diggers.

No. 130,125. Patented Aug. 6, 1872.



Witnesses:
F. A. Morley
Peter H. Mitchell

Inventor:
B. F. Green

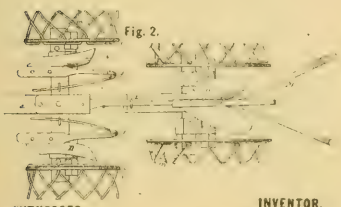
M. JOHNSON.

Improvement in Potato Diggers.

No. 132,364. Patented Oct. 22, 1872.

Fig. 1.

Fig. 2.



WITNESSES.

INVENTOR.

Moses Johnson

S. G. RANDALL.

Seeding-Machines.

No. 137,026 Patented March 18, 1873.

Fig. 1

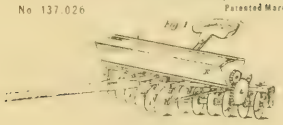


Fig. 2

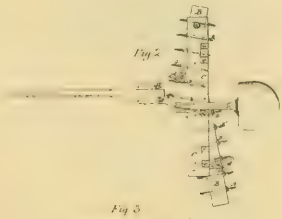
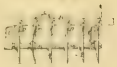


Fig. 3



Witnesses.

Inventor.

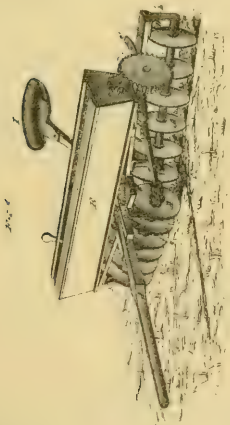
Solon G. Randall

2 Sheets--Sheet 1.

S. G. RANDALL.

Seeding-Machines.

No. 6,053. Reissued Sept. 15, 1874.



WITNESSES

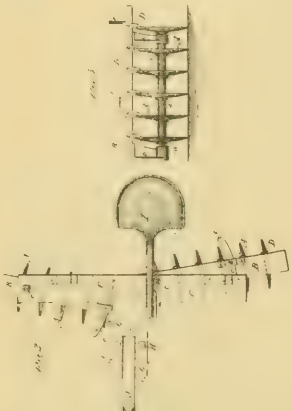
INVENTOR

2 Sheets--Sheet 2.

S. G. RANDALL.

Seeding-Machines.

No. 6,053. Reissued Sept. 15, 1874.



WITNESSES

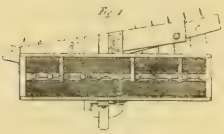
INVENTOR

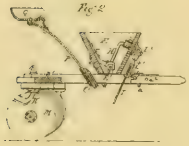
2 Sheets--Sheet

F. BRAMER.

Combined Wheel-Harrows and Seeders.

No. 140,182. Patented June 24, 1873.





Witnesses

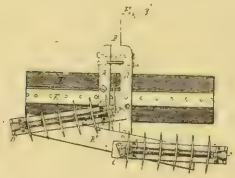
Inventor

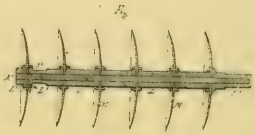
2 Sheets--Sheet 2

F. BRAMER.

Combined Wheel-Harrows and Seeders.

No. 140,182. Patented June 24, 1873





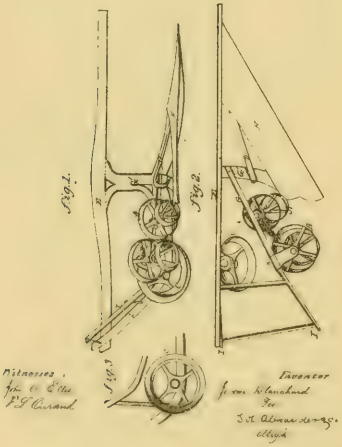
Witnesses

Inventor

J. BLANCHARD.

Plows.

No. 144,433. Patented Nov. 11, 1873.



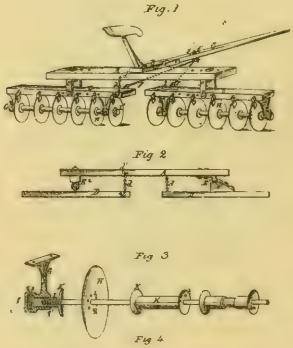
Witnesses:

Inventor

E. BAYLISS.

Wheel-Harrows.

No. 146,224 Patented Jan. 6, 1874.



Witnesses

Inventor.

2 Sheets—Sheet 1

E. BAYLISS.
Wheel Harrow.

No. 8,147. Reissued April 2, 1878.

Fig 1

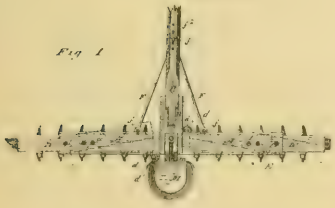
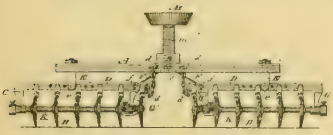


Fig 2



WITNESSES
Wm A Skinkle
Geo W Buck

INVENTOR
Edwin Bayliss
by his Attorneys
Baldwin, Hopkins & Peyton

2 Sheets—Sheet 2

E. BAYLISS
Wheel Harrow

No. 8,147. Reissued April 2, 1878.

Fig 3

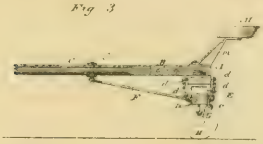


Fig 5

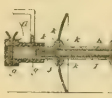


Fig 6

Fig 7

Fig 8

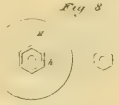
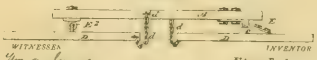


Fig 4



WITNESSES
Wm A Skinkle
Geo W Buck

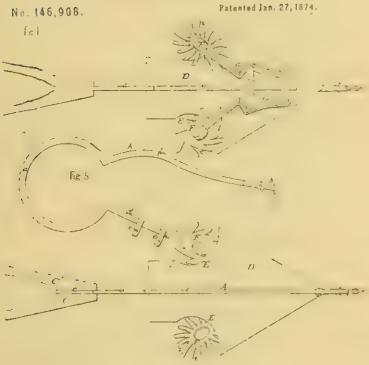
INVENTOR
Edwin Bayliss
By his Attorneys
Baldwin Hopkins & Peyton

2 Sheets--Sheet 1

M. JOHNSON.
Potato-Diggers.

No. 146,908. Patented Jan. 27, 1874.

Fig 1



WITNESSES
Chas H Helm
Geo W Ross

INVENTOR
Moses Johnson
Witnesses & Johnson & Co

2 Sheets--Sheet 2.

M. JOHNSON.
Potato-Diggers.

No. 146,908. Patented Jan. 27, 1874.

Fig 2

Fig 4

Fig 3

WITNESSES
Chas H Helm
Geo W Ross

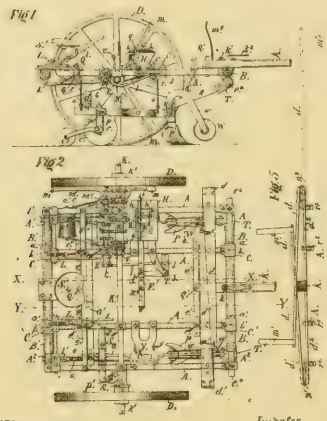
INVENTOR
[illegible]

3 Sheets--Sheet 1.

A. M. ASAY & J. W. WOOD.

Corn-Planters and Fertilizer-Distributors.

No. 151,192. Patented May 26, 1874.



Witnesses:
A. M. Gallinek Jr.
D. Lawson Jr.

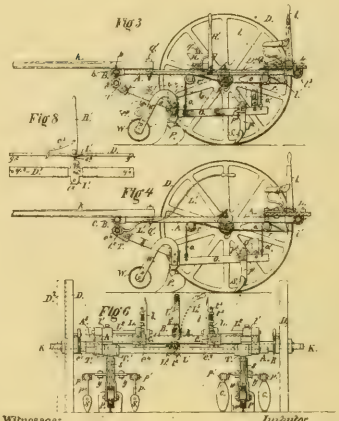
Inventor
A. Merritt Asay
John W. Wood, by
Munson & Co. Atty

3 Sheets--Sheet 2.

A. M. ASAY & J. W. WOOD

Corn-Planters and Fertilizer-Distributors.

No. 151,192. Patented May 26, 1874.



Witnesses:
A. M. Gallinek Jr.
D. Lawson Jr.

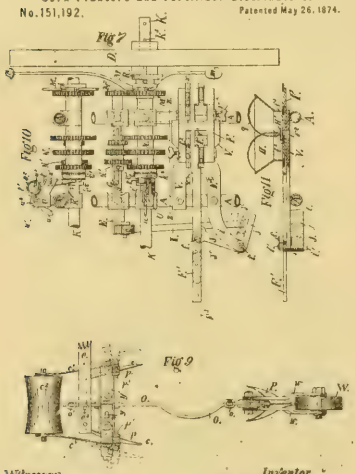
Inventor
A. Merritt Asay
John W. Wood, by
Munson & Co. Atty

3 Sheets--Sheet 3.

A. M. ASAY & J. W. WOOD.

Corn-Planters and Fertilizer-Distributors.

No. 151,192. Patented May 26, 1874.



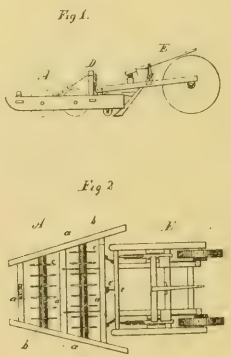
Witnesses
A. M. Gallinek Jr.
D. Lawson Jr.

Inventor
A. Merritt Asay,
John W. Wood, by
Munson & Co. Atty

A. JACKSON & R. IRWIN.

Levelers, Pulverizers, and Corn-Planters.

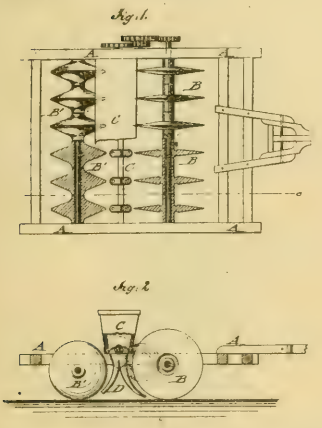
No. 155,311. Patented Sept. 22, 1874.



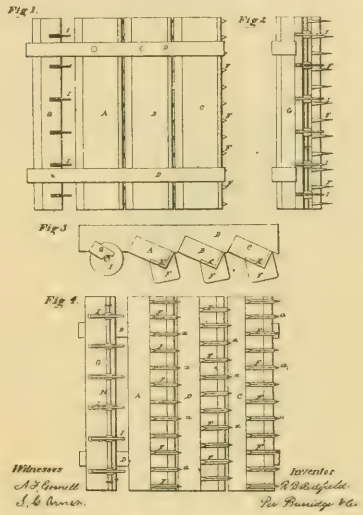
Witnesses.
Philip M. Wade
Parker H. Jones Jr.

Inventors
Alexander Jackson
Richard Irwin
per Richards & Wales
Attorneys

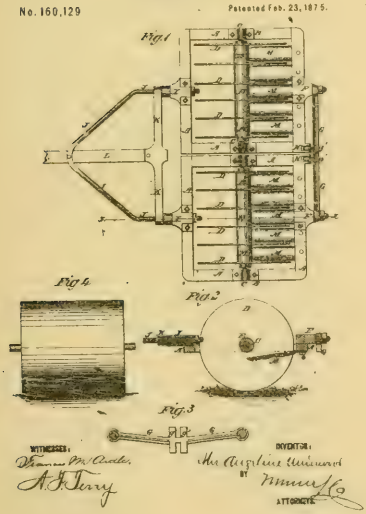
A. CANTERBURY.
Seed and Grain Drills.
No. 155,420. Patented Sept. 29, 1874.



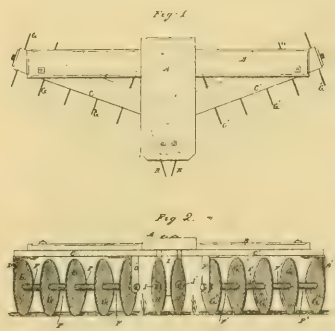
R. B. REDFIELD.
Clod-Crushers.
No. 155,975. Patented Oct. 13, 1874.



ANGELINE UNDERWOOD.
Land-Pulverizer.
No. 160,129 Patented Feb. 23, 1875.



S. G. RANDALL.
Disk-Harrow Cultivator.
No. 161,060. Patented March 23, 1875

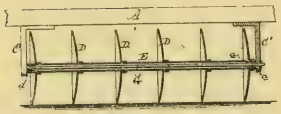


S. G. RANDALL
Disk-Harrow.

No 163,527 Patented May 18, 1875

Fig. 1.

Fig. 2.



Witnesses.
Peter Becker
Fred Haynes

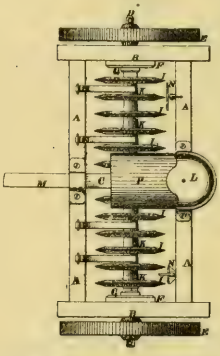
Silas G. Randall
by his Attorney
Thos. Hill

2 Sheets--Sheet 1

J. MASTERN.
Harrow.

No 165,108. Patented June 29, 1875

Fig. 1.



WITNESSES:
Jas. K. Hutchinson
John R. Young

INVENTOR.
Jno. Mastern by
Prindle & Co his Attys

2 Sheets--Sheet 2.

J. MASTERN.
Harrow

No. 165,108. Patented June 29, 1875.

Fig. 2.

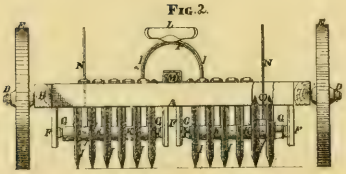


Fig. 3.

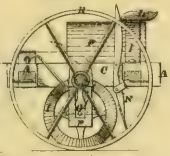


Fig. 4.

Fig. 5.

WITNESSES:
Jas. K. Hutchinson
John R. Young

INVENTOR.
Jno. Mastern by
Prindle & Co his Attys

S. BEAN.
Corn-Stalk Cutter.

No. 169,134. Patented Oct. 26, 1875.

Fig. 1

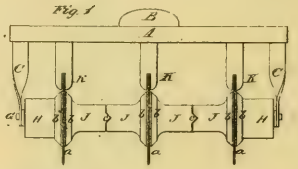


Fig. 2

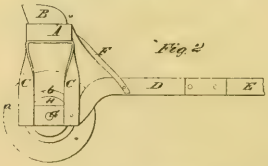
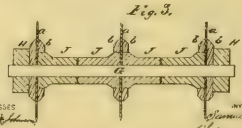


Fig. 3.



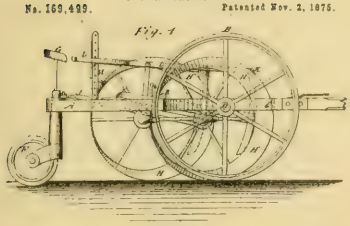
WITNESSES
Jas. K. Hutchinson
Jas. E. Hibbard

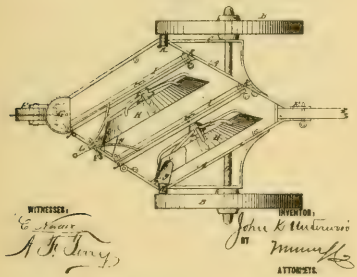
INVENTOR
Samuel Bean
Chapman & Hibbard
ATTORNEYS

2 Sheets—Sheet 1.

J. K. UNDERWOOD.
ROTARY GANG-PLOW.

No. 169,499. Patented Nov. 2, 1875.





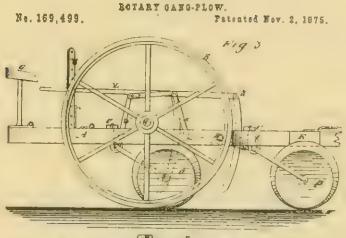
WITNESSES:
E. Naus
A. F. Tony

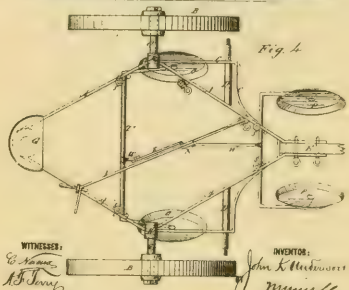
INVENTOR:
John K. Underwood
BY
Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 2.

J. K. UNDERWOOD.
ROTARY GANG-PLOW.

No. 169,499. Patented Nov. 2, 1875.





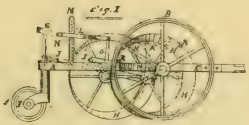
WITNESSES:
E. Naus
A. F. Tony

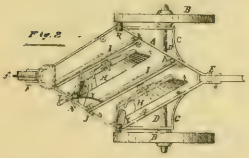
INVENTOR:
John K. Underwood
BY
Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1.

J. K. UNDERWOOD.
ROTARY GANG-PLOWS.

No. 7,865. Reissued Aug. 29, 1877.





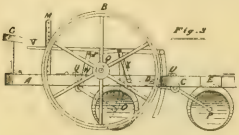
Witnesses:
J. H. Coyne
E. Manchester

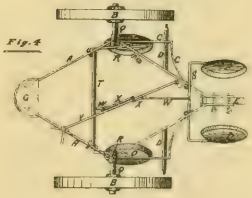
INVENTOR:
John K. Underwood
By F. F. Warner, Jr.
Attorney.

2 Sheets—Sheet 2.

J. K. UNDERWOOD.
ROTARY GANG-PLOWS.

No. 7,865. Reissued Aug. 29, 1877.



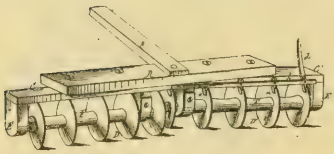


Witnesses:
J. H. Coyne
E. Manchester

INVENTOR:
John K. Underwood
By F. F. Warner, Jr.
Attorney.

F. BRAMER.
WHEEL-HARROW.

No. 171,092. Patented Dec. 14, 1875.

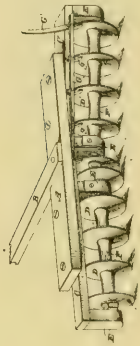


Witnesses:
Alex Mahon
John E. Ginter

Inventor
Frank Bramer
by A. L. Smith
Attorney.

F. BRAMER.
Wheel-Harrow.

No. 8,299. Reissued June 25, 1878.

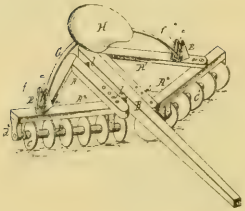


WITNESSES
Wm A. Simonds
Rotsdean Buchanan.

INVENTOR
Frank Bramer
By his Attorneys
Dickerson, Hopkins & Peyton

F. BRAMER & O. W. BADGER.
WHEEL-HARROW.

No. 174,767. Patented March 14, 1876.

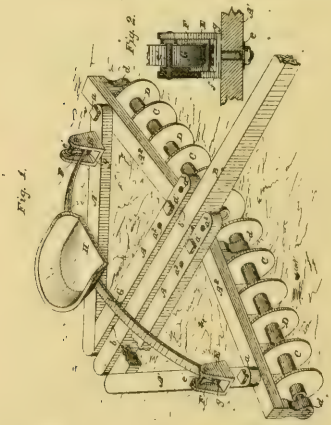


Witnesses:
E. H. Kennard
Alex Mahon

Inventors.
Frank Bramer
Orin W. Badger
by A. L. Smith
Attorney.

F. BRAMER & O. W. BADGER.
O. W. BADGER assignor to said BRAMER
Wheel-Harrow.

No. 8,080. Reissued Feb. 12, 1878



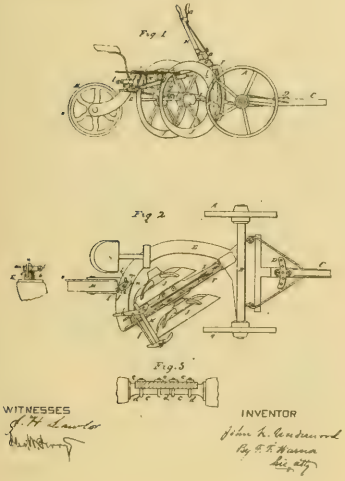
WITNESSES
Wm A. Simonds
Geo W. Crosby

INVENTORS
Frank Bramer
Orin W. Badger
By Muir Hobson
Dickerson, Hopkins & Peyton

J. K. UNDERWOOD.

ROTARY PLOW.

No. 177,668. Patented May 23, 1876.



A. T. MARTIN, Jr.

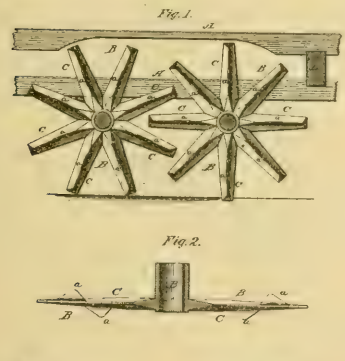
PLOW SHIELD AND CLEANER.

No. 179,122. Patented June 27, 1876.

W. J. ATCHISON.

REVOLVING HARROW AND CULTIVATOR.

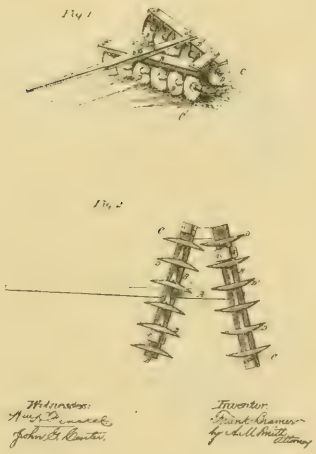
No. 185,061. Patented Dec. 5, 1876.



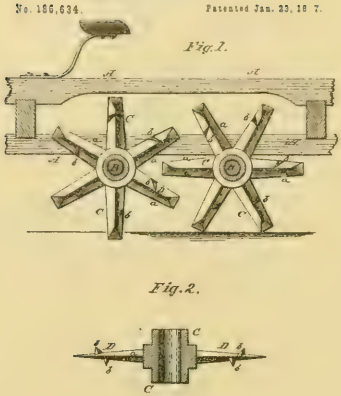
F. BRAMER.

WHEEL-HARROW.

No. 185,209. Patented Dec. 12, 1876.



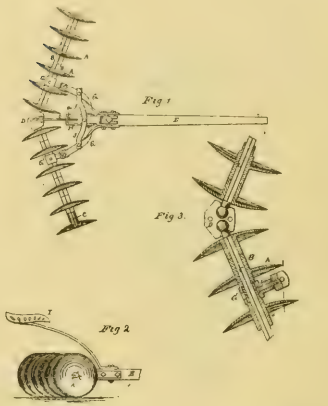
G. STEVENSON.
REVOLVING CULTIVATORS.
No. 186,634. Patented Jan. 23, 18 7.



Witnesses:
F. E. Dieterich
Frank Huff

Inventor:
Geo. Stevenson
per C. H. Walton & Co. Attorneys.

C. La DOW
HARROW CULTIVATOR.
No. 197,392. Patented Feb. 13, 1877

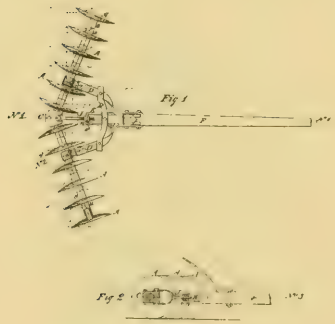


WITNESSES
Henry H. Miller
C. R. Beach

INVENTOR
Chas. La Dow
by Albert G. Davis
ATTORNEYS

3 Sheets—Sheet 1.

C. La DOW.
Harrow-Cultivator.
No. 8,159. Reissued April 9, 1878.

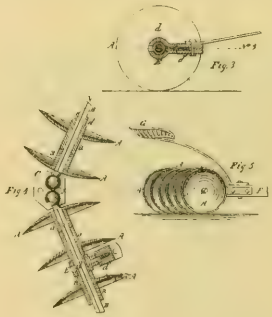


Witnesses: Geo. Gilbert, Charles Seekick

Charles La Dow
Inventor

3 Sheets—Sheet 2

C. La DOW.
Harrow-Cultivator.
No. 8,159. Reissued April 9, 1878.



Witnesses: Geo. Gilbert, Charles Seekick

Charles La Dow
Inventor

3 Sheets—Sheet 3

C. La DOW.
Harrow-Cultivator.

No. 8,159. Reissued April 9, 1878.

Fig. 6.

Fig. 7.

Fig. 8

Witnesses { C. Alex. Albright / Chas. Lemm

Charles La Dow
Inventor

H. W. NICHOLS.
CULTIVATOR.

No. 186,815. Patented March 27, 1877.

Fig. 1.

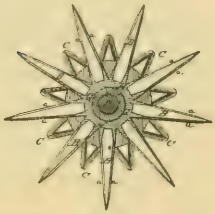


Fig. 2.

Fig. 3.

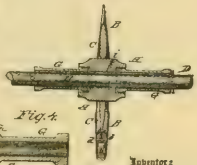


Fig. 4.

Witnesses:
P. C. Mastand
Frank H. Duffy

Inventor:
Henry W. Nichols.
per: C. H. Willson & Son
Attorneys.

S. G. REYNOLDS.
PLOWS.

No. 190,904. Patented May 15, 1877.

Fig 1

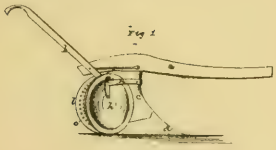
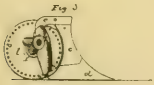


Fig 2

Fig 3



WITNESSES
J. W. Greenleaf
Geo. D. Joyce

INVENTOR
S. G. Reynolds
by
F. H. Ashmun Atty

J. L. HILL.
CORN-PLANTER AND GRAIN-DRILL.

No. 191,054. Patented May 22, 1877.

Fig 1

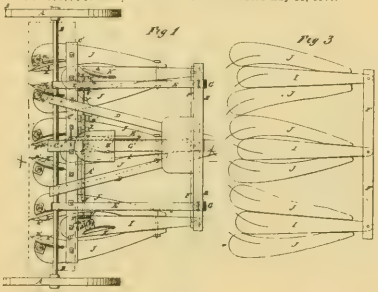
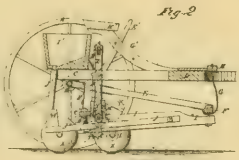


Fig 3

Fig 4

Fig 2



WITNESSES:
W. W. Hungerford
J. W. Featherstonaugh

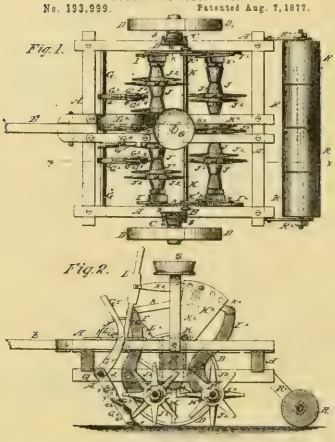
INVENTOR
J. L. Hill
by
Munn & Co
ATTORNEYS.

2 Sheets—Sheet 1.

T. SANDERS & L. C. NICHOLDS

HARROW AND CULTIVATOR.

No. 193,999. Patented Aug. 7, 1877.



Witnesses:

Inventors:

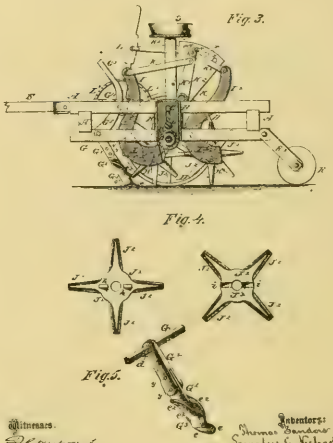
Per C. H. Walton & Co. Attorneys.

2 Sheets—Sheet 2.

T. SANDERS & L. C. NICHOLDS.

HARROW AND CULTIVATOR.

No. 193,999. Patented Aug. 7, 1877.



Witnesses:

Inventors:

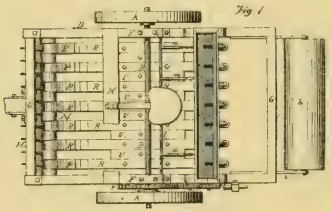
Per C. H. Walton & Co. Attorneys.

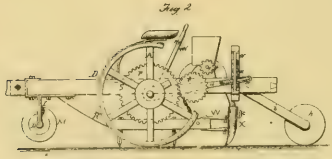
2 Sheets—Sheet 1.

J. B. WALL.

COMBINED HARROW, SEED-PLANTER, AND ROLLER.

No. 195,677. Patented Sept. 25, 1877





Witnesses

Inventor

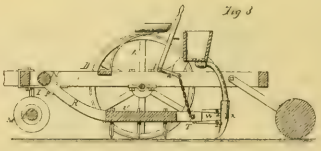
John B. Wall

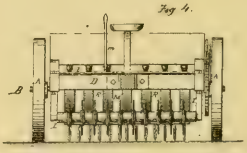
2 Sheets—Sheet 2.

J. B. WALL

COMBINED HARROW, SEED-PLANTER, AND ROLLER.

No. 195,677. Patented Sept. 25, 1877





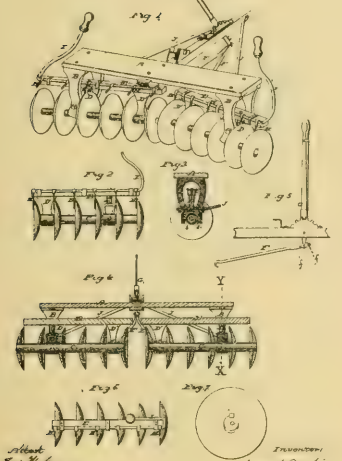
Witnesses

Inventor

John B. Wall

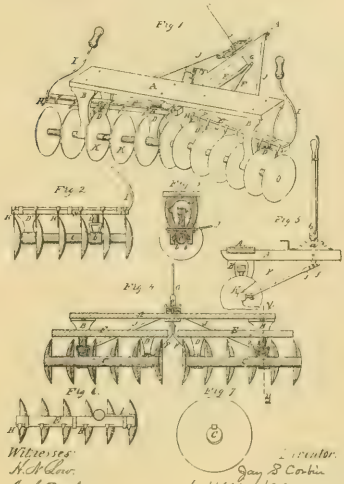
J. S. CORBIN.
Wheel-Harrow.

No. 197,545. Patented Nov. 27, 1877.



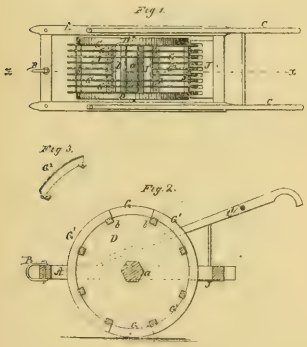
J. S. CORBIN.
Wheel-Harrow

No. 8,765 Reissued June 24, 1879.



J. MOORE.
Sod-Cutter and Cotton-Chopper.

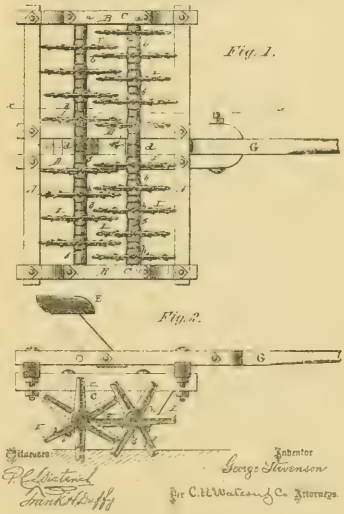
No. 200,327. Patented Feb. 12, 1878.



WITNESSES
INVENTOR
John Moore,
ATTORNEYS

G. STEVENSON.
Pulverizing-Cultivators.

No. 200,355. Patented Feb. 12, 1878.



J. H. SMITH.
Stalk Puller.

No. 201,562. Patented March 19, 1878.

Fig. 1.

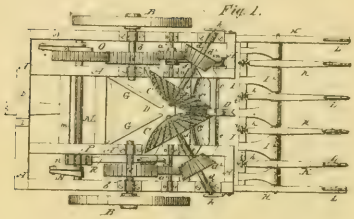
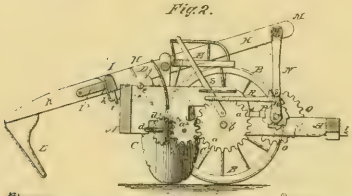


Fig. 2.



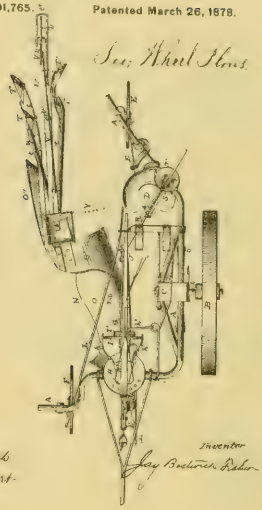
Witnesses:
R. Lostench
Frank H. Raffy

Inventor
James H. Smith.
Per C. H. Watson & Co. Attorneys.

J. B. FISHER.
Sulky Plow.

No. 201,765. Patented March 26, 1878.

See Wheel Plows



Witnesses
Fred Otterbach
R. T. Stuart

Inventor
Jay Bodiner Fisher

F. BRAMER.
Wheel-Harrow.

No. 204,793. Patented June 11, 1878.

Fig. 1.

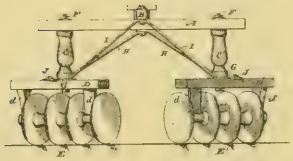


Fig. 2.

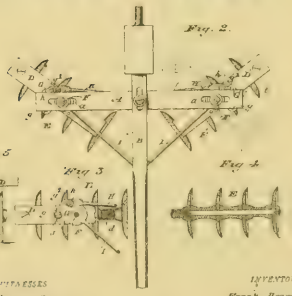


Fig. 5

Fig. 3

Fig. 4

WITNESSES
Wm. A. Grinkle
Extendrus Buchanan

INVENTOR
Frank Bramer
By his Attorneys
L. Deane
Edward Payson

N. PALMER.
Rotary Mold-Board Plow.

No. 205,498. Patented July 2, 1878.

Fig. 1

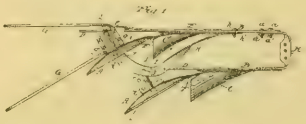
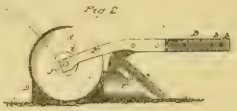


Fig. 2

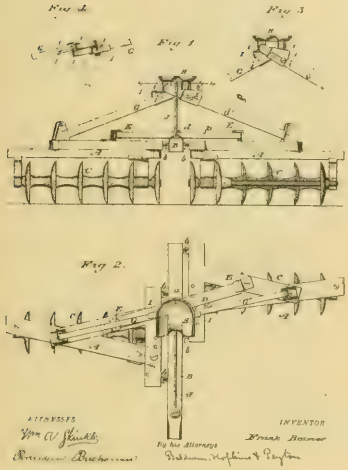


Witnesses
Jos. F. Kastner
D. C. Collins

Inventor
Nelson Palmer

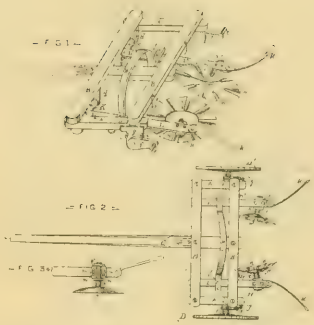
F. BRAMER.
Wheel-Harrow.

No. 203,608. Patented July 2, 1878.



J. MALLON
Cultivator

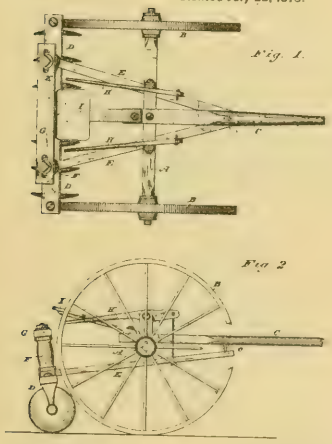
No. 206,185 Patented July 23, 1878



2 Sheets—Sheet 1.

F. BRAMER.
Wheel-Harrow.

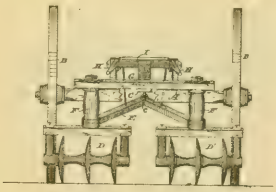
No. 206,218 Patented July 23, 1878.



2 Sheets—Sheet 2

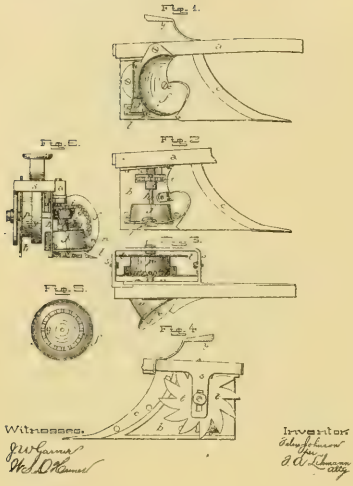
F. BRAMER.
Wheel-Harrow.

No. 206,218 Patented July 23, 1878.



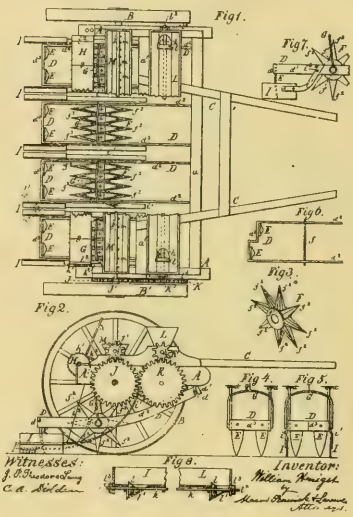
F. JOHNSON.
Plow.

No. 206,580. Patented Aug. 13, 1878.



W. HENIGST.
Cultivator.

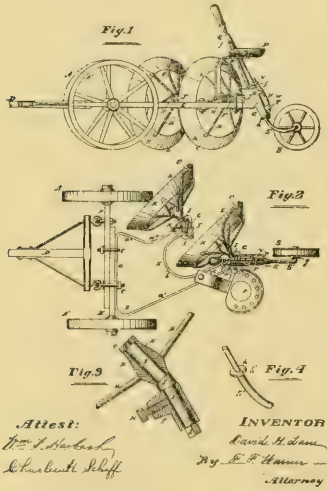
No. 207,808. Patented Sept. 10, 1878.



2 Sheets—Sheet 1.

D. H. LANE.
Rotary-Plow.

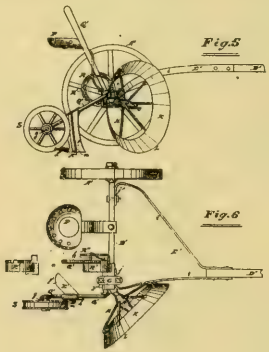
No. 208,246. Patented Sept. 24, 1878.



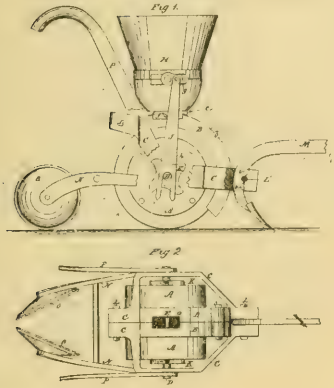
2 Sheets—Sheet 2.

D. H. LANE.
Rotary-Plow.

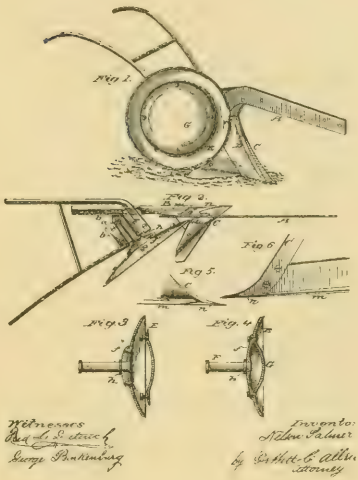
No. 208,246. Patented Sept. 24, 1878.



R. M. PATTILLO.
Cotton-Seed Planters.
No. 209,508. Patented Oct. 29, 1878.

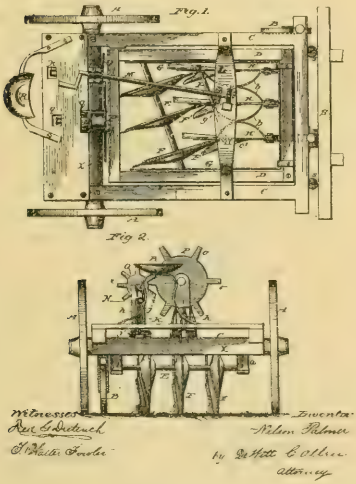


N. PALMER.
Rotary-Moldboard Plow.
No. 211,638 Patented Jan. 28, 1879.



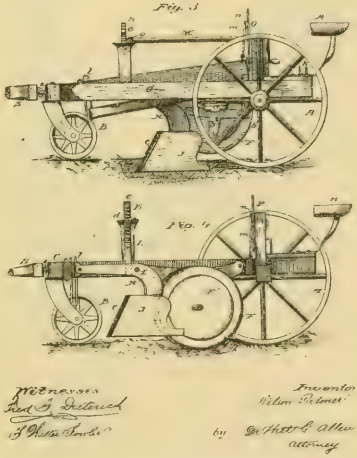
2 Sheets—Sheet 1

N. PALMER.
Rotary Gang-Plow.
No. 213,242 Patented Mar. 11, 1879.



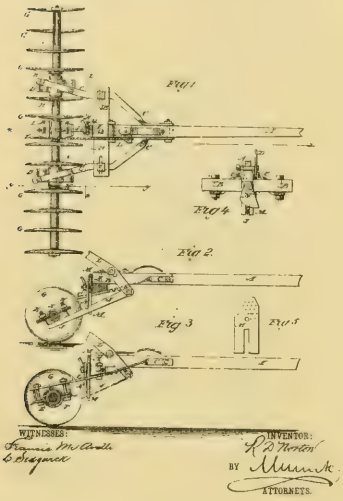
2 Sheets—Sheet 2

N. PALMER.
Rotary Gang-Plow.
No. 213,242 Patented Mar. 11, 1879.



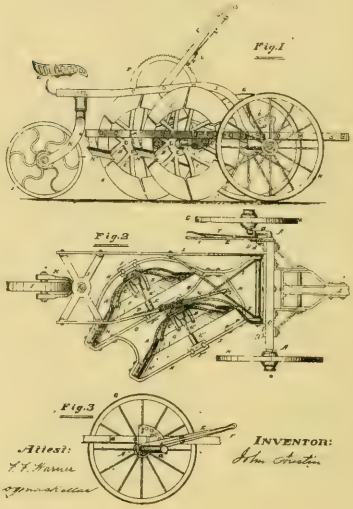
R. D. NORTON
Pulverizing Disk Harrow.

No. 214,190 Patented April 8, 1879.



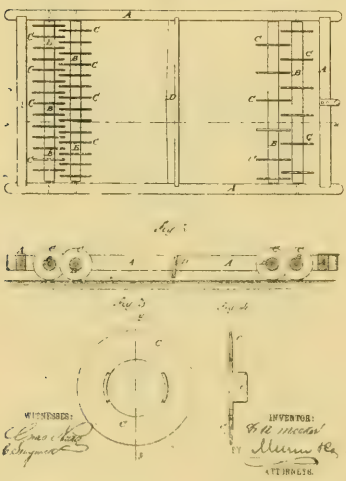
J. AUSTIN.
Plow.

No. 216,592. Patented June 17, 1879.



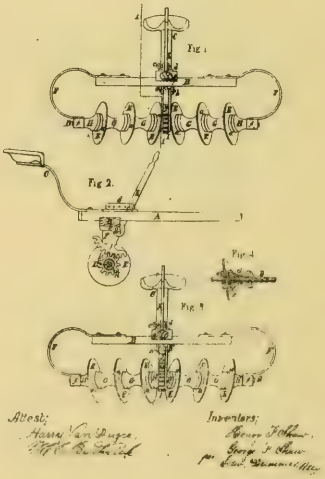
C. A. MEEKER.
Smoothing-Harrow.

No. 216,878. Patented June 24, 1879.



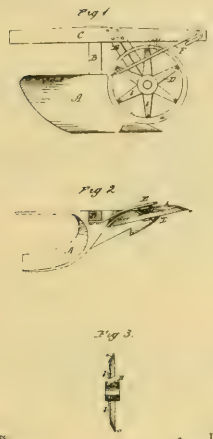
H. F. & G. F. SHAW.
Wheel-Harrow.

No. 220,255. Patented Oct. 7, 1879.



J. LANE.
Rolling-Colter.

No. 223,151. Patented Dec. 30, 1879.



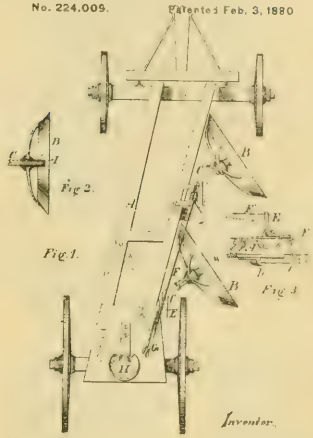
WITNESSES:
W. W. Hollingsworth
Edwd. Lee Dyer

INVENTOR:
Joseph Lane
Per Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1

C. R. FOSTER
Rotary Gang-Plow

No. 224,009. Patented Feb. 3, 1880



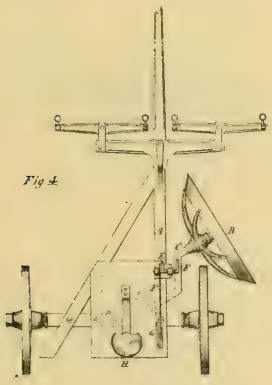
Witnesses,
H. C. Corby
Jno. Ellis Jorgo

Inventor.
Charles R Foster
By Munn & Co
Attorneys

2 Sheets—Sheet 2

C. R. FOSTER.
Rotary Gang-Plow.

No. 224,009. Patented Feb. 3, 1880.



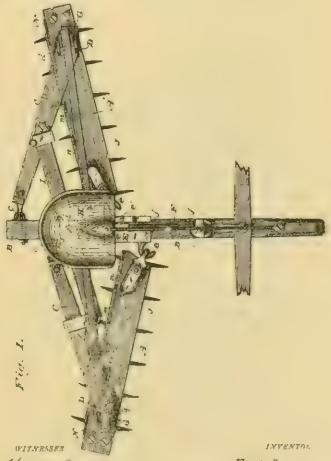
Witnesses
H. C. Corby
Jno. Ellis Jorgo.

Inventor
Charles R. Foster
By Munn & Co
Attorneys

3 Sheets—Sheet 1.

F. BRAMER.
Wheel-Harrow.

No 225,331 Patented Mar. 9, 1880.



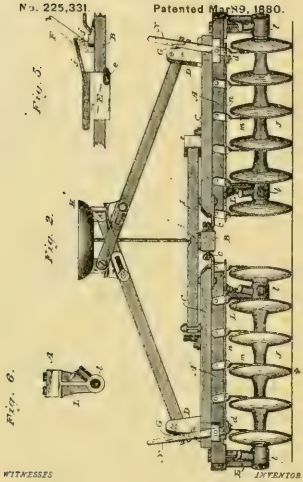
WITNESSES
Wm. A. Minnich
Geo. H. Lucas

INVENTOR.
Frank Bramer
By his Attorneys
Munn & Co

3 Sheets—Sheet 2

F. BRAMER.
Wheel-Harrow.

No. 225,331. Patented Mar. 9, 1880.



WITNESSES
Wm A Shimdt
Geo W Beck

INVENTOR
Frank Bramer
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 3

F. BRAMER.
Wheel-Harrow.

No. 225,331. Patented Mar. 9, 1880.

Fig. 3.

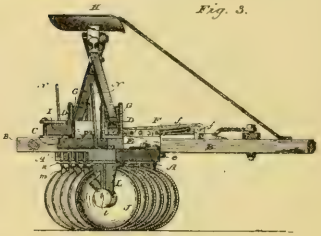
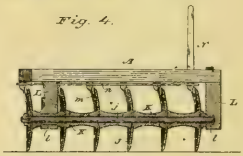


Fig. 4.



WITNESSES
Wm A Shimdt
Geo W Beck

INVENTOR
Frank Bramer
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 1

C. La DOW.
Wheel-Harrow.

No. 225,394. Patented Mar. 9, 1880.

Fig 1.

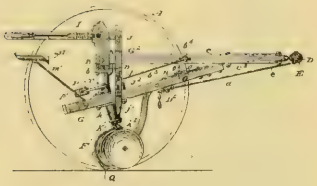
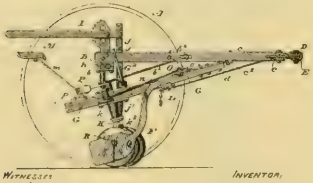


Fig. 2.



WITNESSES
Wm A Shimdt
Geo W Beck

INVENTOR
Charles La Dow
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 2

C. La DOW.
Wheel-Harrow.

No. 225,394. Patented Mar. 9, 1880.

Fig 3

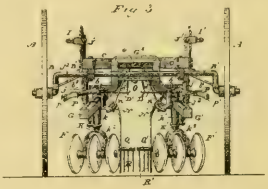
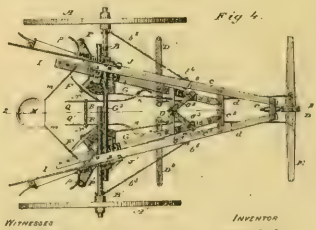


Fig 4.



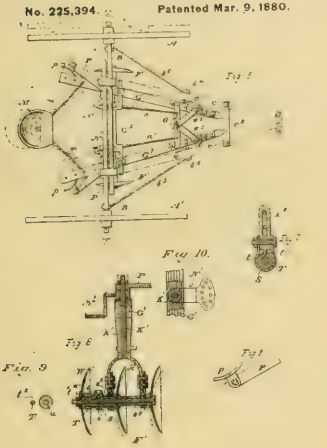
WITNESSES
Wm A Shimdt
Geo W Beck

INVENTOR
Charles La Dow
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 3

C. La DOW.
Wheel-Harrow.

No. 225,394. Patented Mar. 9, 1880.



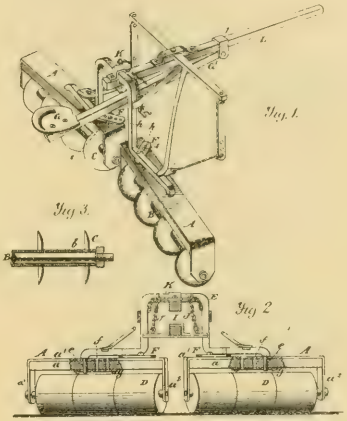
Witnesses.
Geo. W. Beck

By his Attorneys

Inventor
Charles La Dow

G. R. JOHNSON.
Corn-Cultivator.

No. 225,526. Patented Mar. 16, 1880.



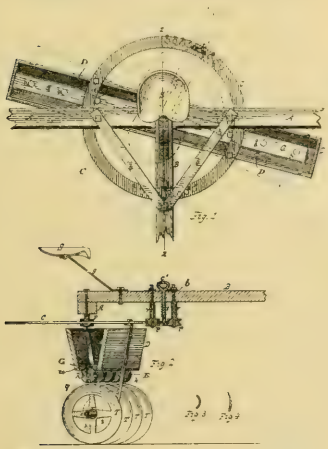
Witnesses
A. Ruppert
Alex. Scott

Inventor
George R. Johnson
by Edson Bros
Attorneys

3 Sheets—Sheet 1

C. La DOW.
Combined Seeder and Cultivator.

No. 226,233. Patented April 6, 1880



Witnesses.
Geo. W. Beck

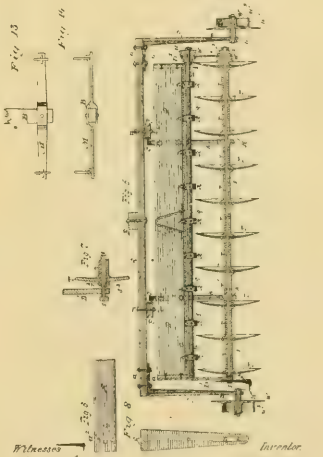
By his Attorneys

Inventor

3 Sheets—Sheet 2

C. La DOW.
Combined Seeder and Cultivator

No. 226,233. Patented April 6, 1880.



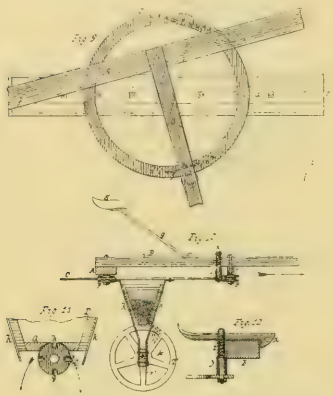
Witnesses
Geo. W. Beck

By his Attorneys

Inventor

3 Sheets—Sheet 3

C. LE DOW
Combined Seeder and Cultivator
No. 226,237. Patented April 6, 1880.

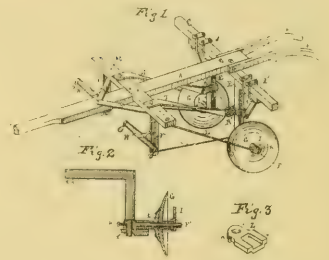


Witnesses:
Wm. A. Simonds
Geo. H. Rook

By his Attorneys
Rodman, Hopkins & Dayton

Inventor
Charles Le Dow

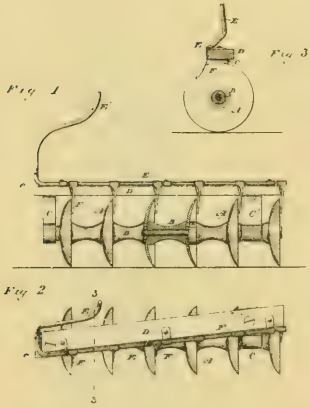
B. J. WEST.
Cultivator
No. 226,691. Patented April 20, 1880.



Witnesses
Arthur Robinson
H. C. Hubbell

Inventor
Benj. J. West
By H. A. Fontaine
Attorney

G. G. CROWLEY.
Wheel-Harrow.
No. 226,839. Patented April 27, 1880.



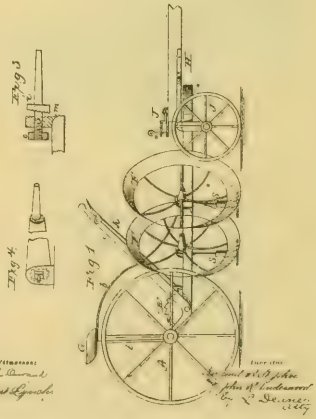
Witnesses
Wm. H. Arnold
Robinson Robinson

By his Attorneys
Rodman Hopkins & Dayton

Inventor
George G. Crowley

2 Sheets—Sheet 1.

G. B. ST. JOHN & J. K. UNDERWOOD.
Rotary-Plow.
No. 227,070. Patented April 27, 1880.



Witnesses:
F. L. Durand
Albert Lysinski

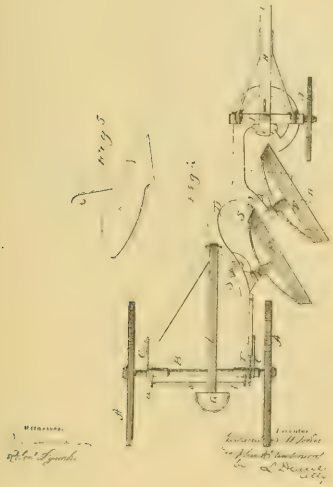
Inventors
Geo. B. St. John
John K. Underwood
By L. Deimerally

2 Sheets—Sheet 2

G. B. ST. JOHN & J. K. UNDERWOOD.

Rotary-Plow.

No. 227,070. Patented April 27, 1880.

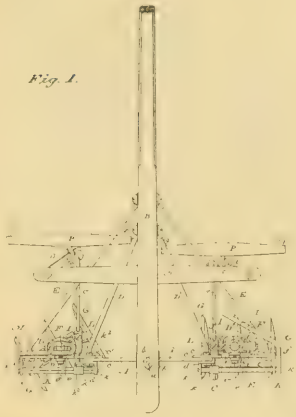


(Model.) 4 Sheets—Sheet 1

F. BRAMER & G. G. CROWLEY.

Harrow or Cultivator.

No. 227,724. Patented May 18, 1880.

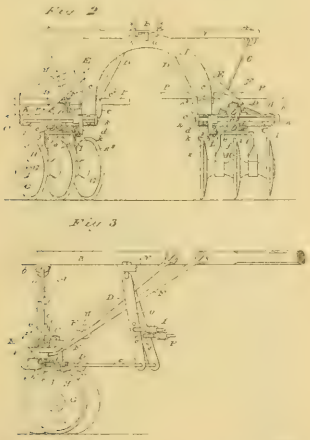


(Model.) 4 Sheets—Sheet 2

F. BRAMER & G. G. CROWLEY.

Harrow or Cultivator.

No. 227,724. Patented May 18, 1880.

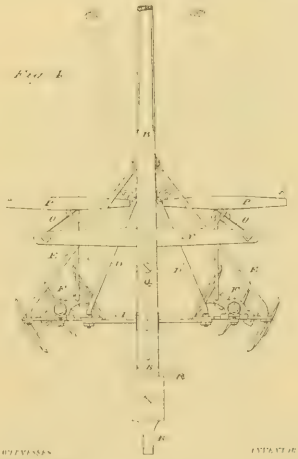


(Model.) 4 Sheets—Sheet 3

F. BRAMER & G. G. CROWLEY.

Harrow or Cultivator.

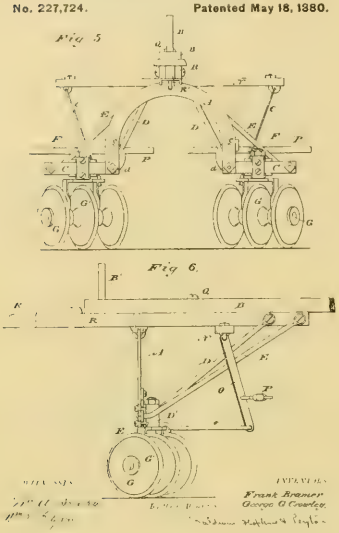
No. 227,724. Patented May 18, 1880.



(Model.) 4 Sheets—Sheet 4

F. BRAMER & G. G. CROWLEY.
Harrow or Cultivator.

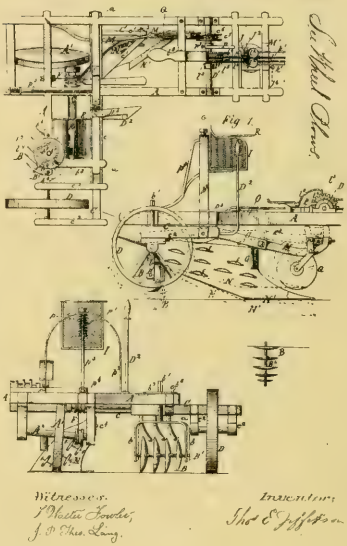
No. 227,724. Patented May 18, 1880.



(No Model.)

T. E. JEFFERSON.
Plow.

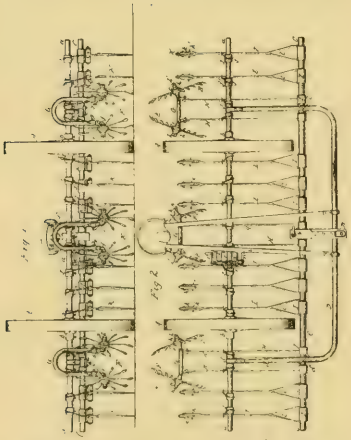
No. 230,419. Patented July 27, 1880.



(No Model.) 2 Sheets—Sheet 1

H. IVES.
Cultivator.

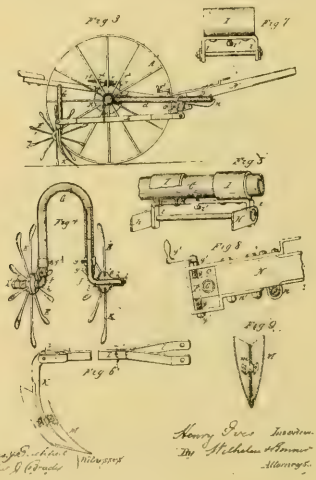
No. 231,582. Patented Aug. 24, 1880.



(No Model.) 2 Sheets—Sheet 2.

H. IVES.
Cultivator.

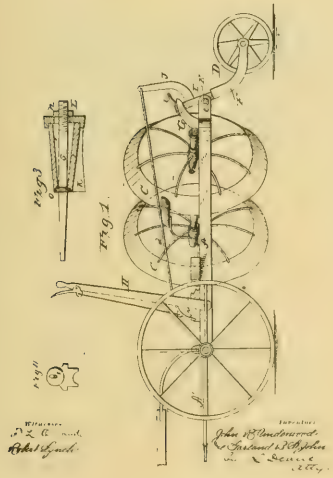
No. 231,582. Patented Aug. 24, 1880.



2 Sheets—Sheet 1

J. K. UNDERWOOD & G. B. St. JOHN.
Rotary Plow.

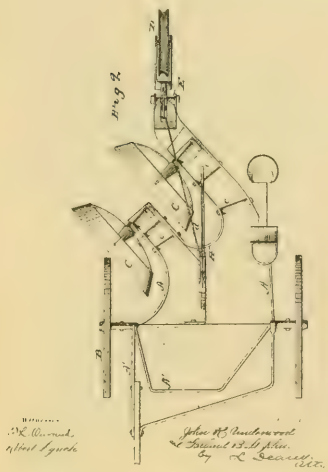
No. 233,455. Patented Oct. 19, 1880.



2 Sheets—Sheet 2

J. K. UNDERWOOD & G. B. St. JOHN
Rotary Plow.

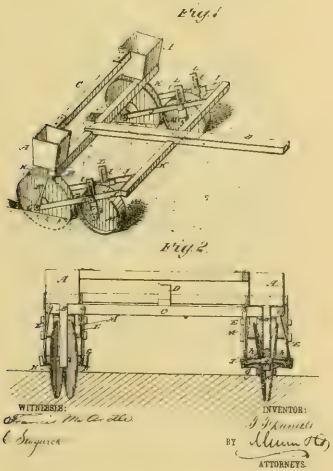
No. 233,455. Patented Oct. 19, 1880.



(No Model.)

T. T. DANIELS.
Corn Planter.

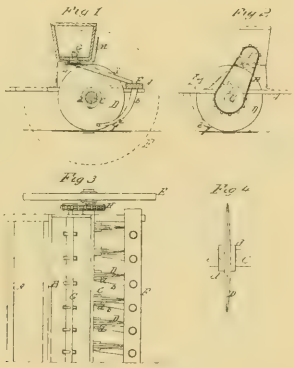
No. 233,999. Patented Nov. 2, 1880.



(No Model.)

J. D. SHRIGLEY.
Combined Seed Drill and Rolling Cutter.

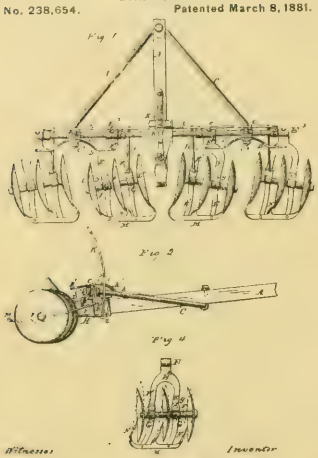
No 225,029. Patented Nov. 30, 1880.



(Model.) 2 Sheets—Sheet 1.

J. S. CORBIN.
Disk Harrow.

No. 238,654. Patented March 8, 1881.



Witnesses
Notley
J. S. Parker

Inventor
Jay S. Corbin
by Doubleday and Bliss
attys

(Model.) 2 Sheets—Sheet 2.

J. S. CORBIN.
Disk Harrow.

No. 238,6' 4. Patented Mar[illegible] 1881.

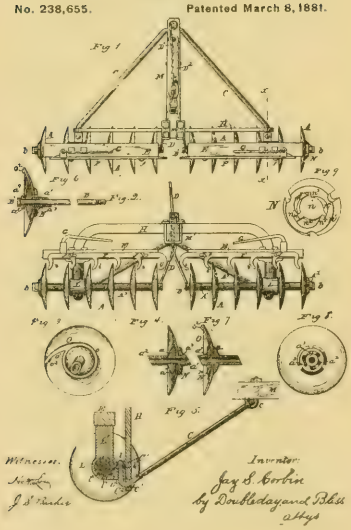
Witnesses
Notley
J. S. Parker

Inventor
Jay S. Corbin
by Doubleday and Bliss
attys

(Model.)

J. S. CORBIN.
Disk Harrow.

No. 238,655. Patented March 8, 1881.



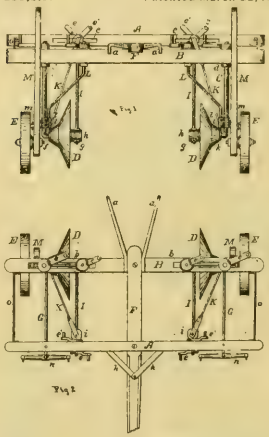
Witnesses.
Notley
J. S. Parker

Inventor.
Jay S. Corbin
by Doubleday and Bliss
attys

(No Model) 2 Sheets—Sheet 1.

J. W. BODLEY.
Rotary Cultivator.

No. 239,219. Patented March 22, 1881



WITNESSES.
W. H. Harris
Geo. H. Strong.

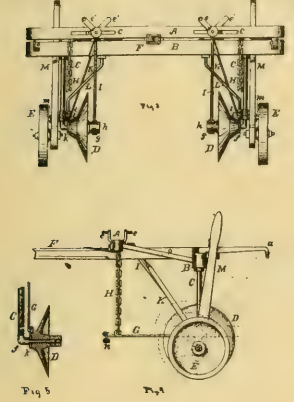
James W. Bodley INVENTOR

per Howard Bros. ATTORNEYS.

(No Model.) 2 Sheets—Sheet 2

J. W. BODLEY.
Rotary Cultivator.

No. 239,219. Patented March 22, 1881.



WITNESSES.
W. H. Harris
Geo. H. Strong.

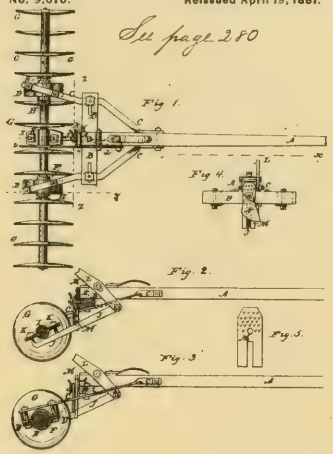
James W. Bodley INVENTOR

per Howard Bros ATTORNEYS.

R. D. NORTON.
Pulverizing Disk Harrow.

No. 214,180. Patented April 8, 1879.
No. 9,676. Reissued April 19, 1881.

See page 280



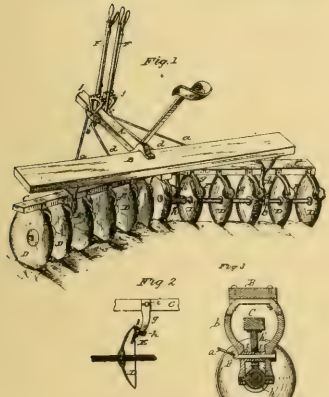
Witnesses:
H. Orton
J. B. Barker.

Inventor:
Richard D. Norton
by W. H. Doubleday
H. H. Blair attys

(Model.)

T. A. GALT & G. S. TRACY.
Disk Harrow.

No. 240,993. Patented May 3, 1881.



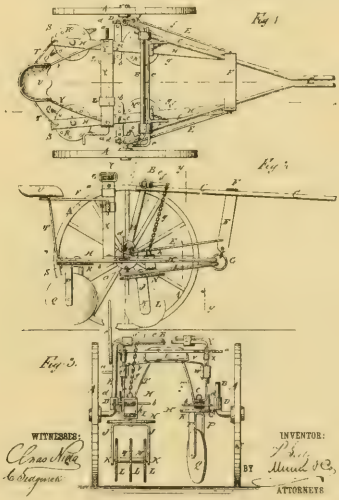
Witnesses
P. C. Dieterich
P. G. Dieterich

Inventors
Thomas A. Galt
George S. Tracy
by Munn & Co
Attys

(Model.)

P. SEITZ.
Cultivator.

No. 241,074. Patented May 3, 1881.



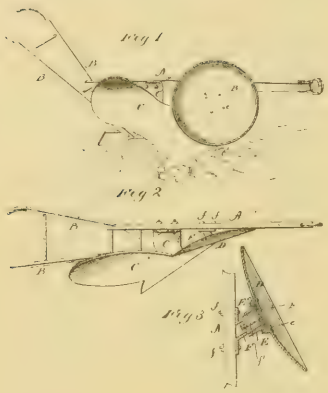
WITNESSES:
Chas. Neff
C. Sugrue.

INVENTOR:
P. Seitz
BY Munn & Co.
ATTORNEYS

(Model.)

G. B. ST. JOHN
Plow.

No. 241,086. Patented May 3, 1881.



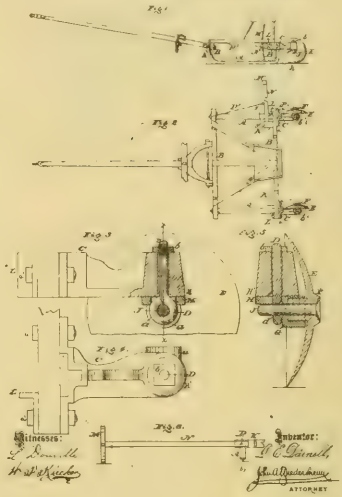
Witnesses:
Dennis L. Cronin
Chas. Tyrrell

Inventor:
Garland B. St. John
by L. Deane
his Atty.

(No Model.)

D. E. DARNELL.
Marking Out Sled for Agricultural Purposes.

No. 242,115. Patented May 31, 1881.



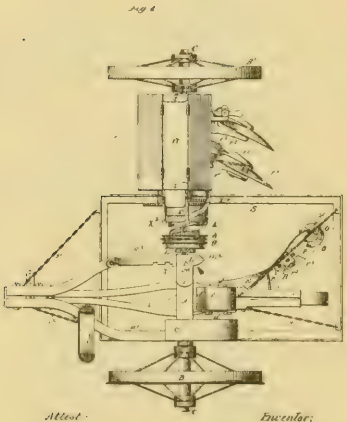
Witnesses:
L. Deane
H. W. Kiechel

Inventor:
D. E. Darnell,
by Geo. H. Mantelsing
Attorney

(No Model.) 5 Sheets—Sheet 1.

T. E. JEFFERSON.
Sulky Plow.

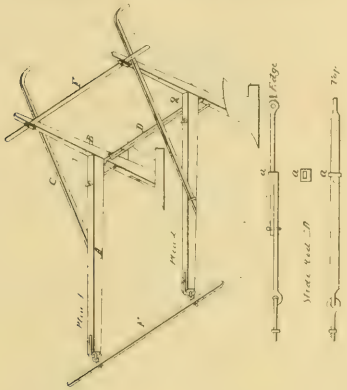
No. 243,676. Patented June 28, 1881.



Attest:
W. H. Kiechel
Wm. H. Chesterton

Inventor:
Thomas E. Jefferson
by Geo. H. Mantelsing
his Atty.

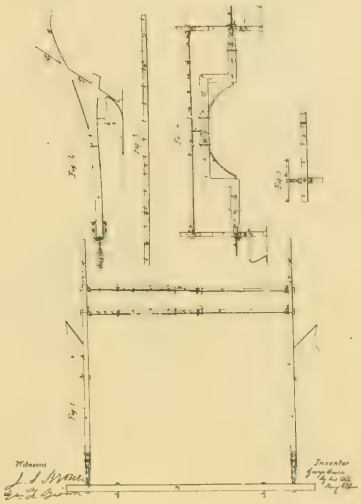
A. Smith
Parallel Cultivator
No. 12,244. Patented Jan. 16, 1855.



Witnesses;
A. M. Stimpson
H. H. Foreman

Inventor,
Arnton Smith

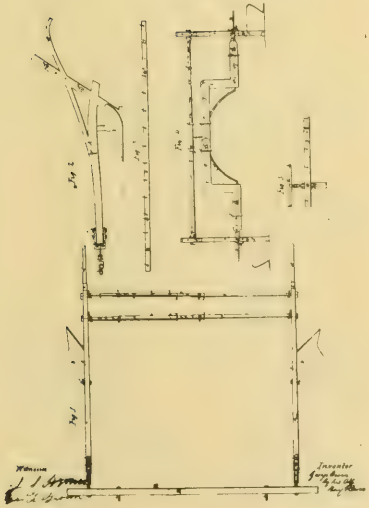
G. Owen
Cultivator
No. 8,316. Patented Feb. 3, 1880.



Witnesses
J. J. Wall
Geo. L. Burton

Inventor
George Owen
by his Atty
Roy Allen

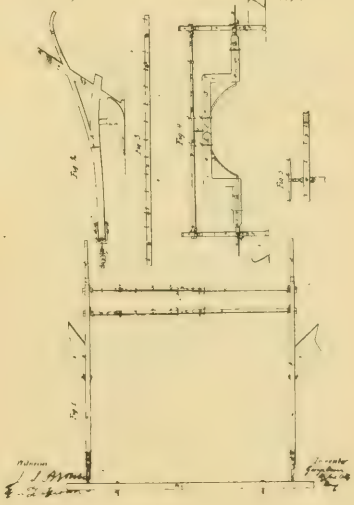
G. Owen
Cultivator
No. 1,908 Reissued Jan. 5, 1864.



Witnesses
J. J. Wall
Geo. L. Burton

Inventor
George Owen
by his Atty
Roy Allen

G. Owen
Cultivator
No. 3,705 Reissued Nov. 2, 1869.



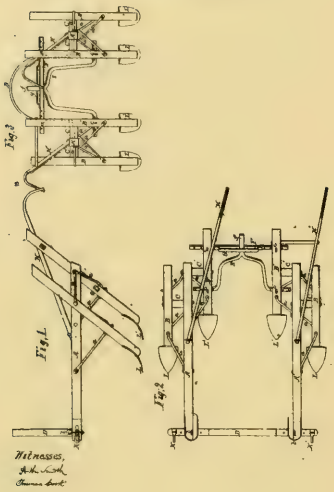
Witnesses
J. J. Wall
Geo. L. Burton

Inventor
George Owen
by his Atty
Roy Allen

E. W. Vangundy.

Cultivator.

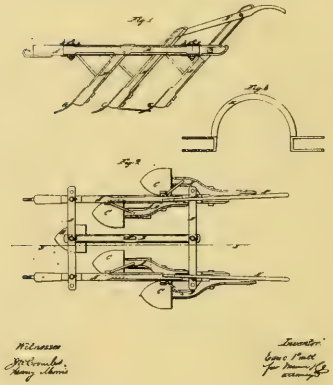
No. 45,454. Patented Feb. 6, 1864.



E. Pratt.

Cultivator.

No. 44,747. Patemed Oct. 18, 1864.

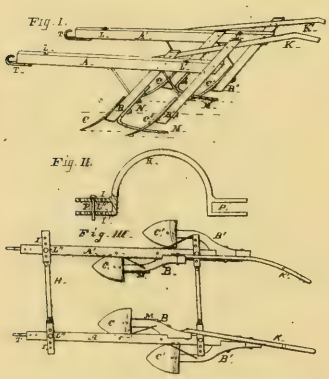


E. PRATT.

Assignor to S. J. WALLACE

CULTIVATOR.

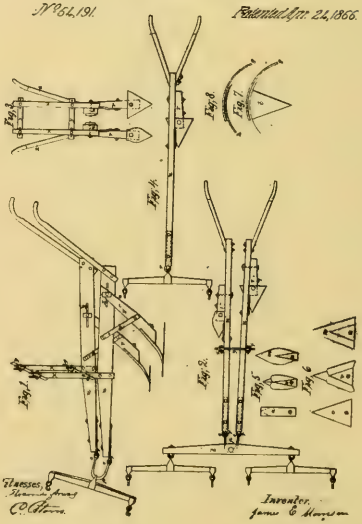
No. 7,353. Reissued Oct. 17, 1876.



J. E. Morrison.

Cultivator.

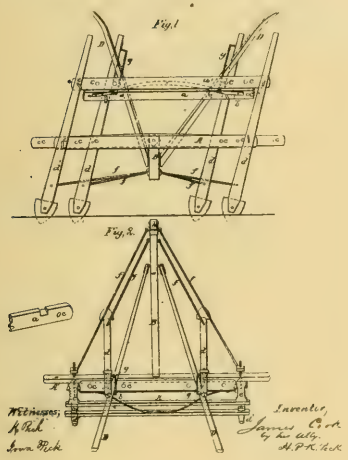
No. 54,191. Patented Apr. 24, 1866.



J. Cook.

Parallel Cultivator.

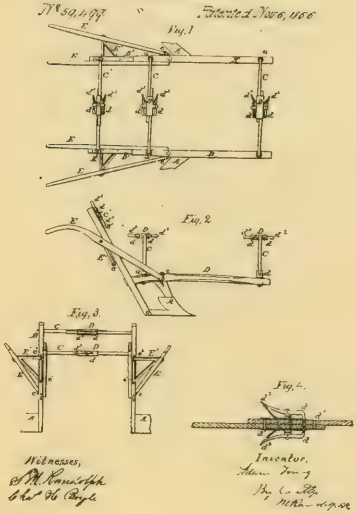
No. 58,382. Patented Oct. 2, 1866.



A. Young.

Parallel Cultivator.

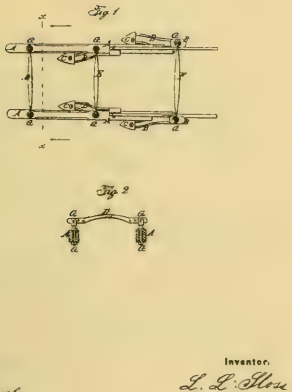
No. 59,197. Patented Nov. 6, 1866.



L. L. SLOSS.

Parallel Cultivator.

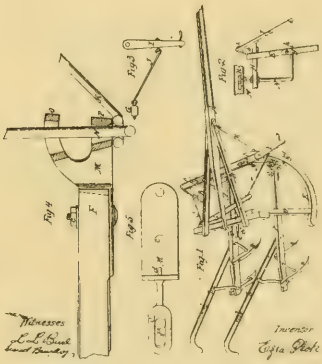
No. 68,247. Patented Aug. 27, 1867.



E. PECK.

Cultivator.

No. 70,111 Patented Oct. 22 1867

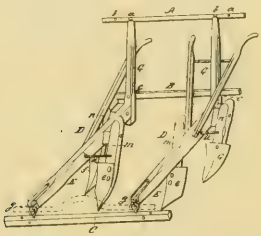


B. M. Ely. Sheet 1 2 Sheets

Parallel Cultivator

No. 87,401. Patented Mar. 2, 1869.

Fig. 1



Witnesses:
Chas. A. Sculoce
S. P. Carter

Inventor.
Benjamin M. Ely

B. M. Ely. Sheets 2 2 Sheets

Parallel Cultivator

No. 87,401 Patented Mar. 2, 1869.

Fig. 2

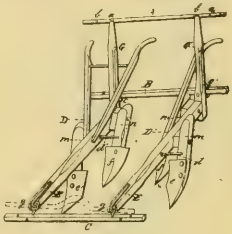


Fig. 3

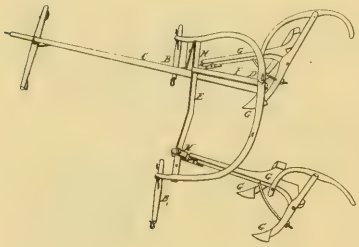
Witnesses
Chas. A. Sculoce
S. P. Carter

Inventor
Benjamin M. Ely

M. Eichholtz.

Cultivator.

No. 88,557. Patented Apr. 6, 1869.

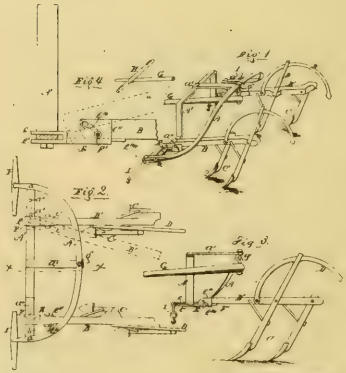


Witnesses,
H. F. Chute
Lewis L. Gordon

Inventor,
Matthias Eichholtz
Per Attorney,
Thos. Tiffany

M. EICHHOLTZ,
Assignor to H. H. & J. P. Patten & I. P. Pillsbury
EQUALIZING-CULTIVATOR.

No. 7,738. Reissued June 12, 1877.

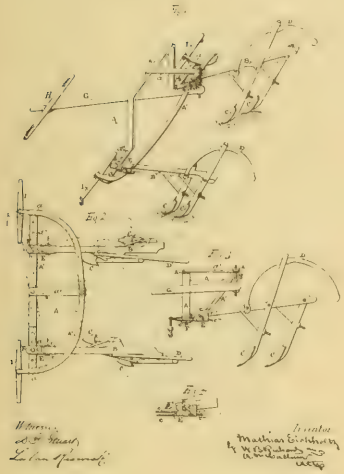


Witnesses:
Chas. Shepherd
P. W. Richards

Inventor.
Matthias Eichholtz.
By W. W. Richards,
Atty.

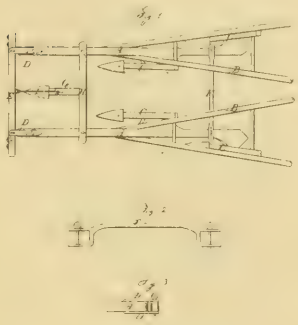
M. EICHHOLTZ.
Equalizing-Cultivators.

No. 6,008 Reissued Aug. 11, 1874



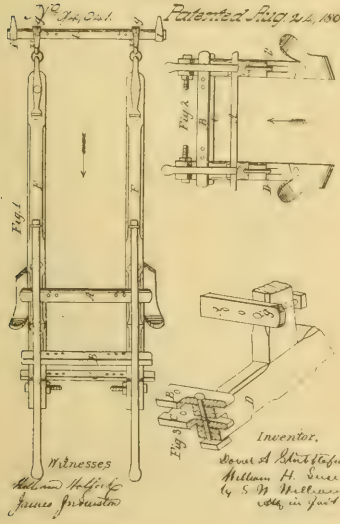
W. H. Lanham,
Cultivator.

No. 92,815. Patented July 20 1869



Stubblefield & Luse.
Plow

Patented Aug 24, 1864.

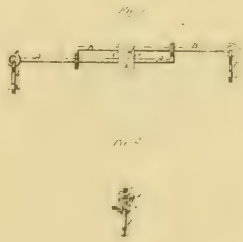


Witnesses
William Hoffman
James Johnston

Inventor.
Stowe A. Stubblefield
William H. Luse
by S. M. McLean
Atty in fact

M. Rice.
Plow Coupling.

No. 94,339. Patented Aug. 31. 1869



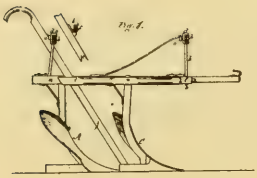
Witnesses:
Gustave Dietz
Jno. H. Brooks

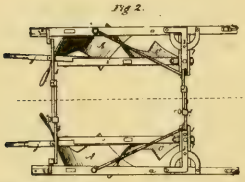
Inventor:
M. Rice
Per Munn & Co
Attorneys.

H. Carson,

Jump Plow.

No. 95082. Patented Sept. 21. 1869.



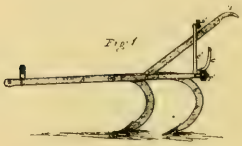


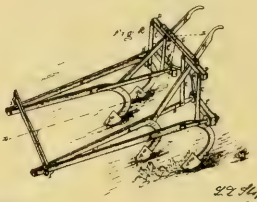
Witnesses. Inventor.

L. L. Sloss,

Cultivator.

No. 96060. Patented Jan. 4. 1870.



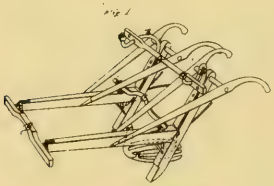


Witnesses Inventor

W. M. Lanham,

Parallel Cultivator.

No. 109687. Patented May 8. 1870.

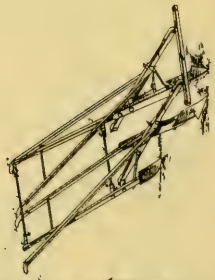


Witnesses Inventor

F. G. Manning,

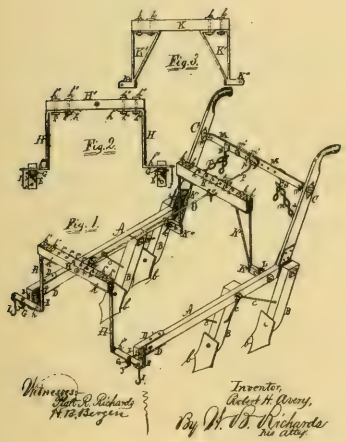
Corn Plow.

No. 107420. Patented Sept. 18. 1870.

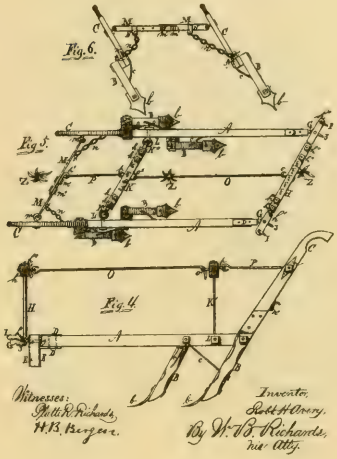


Witnesses Inventor

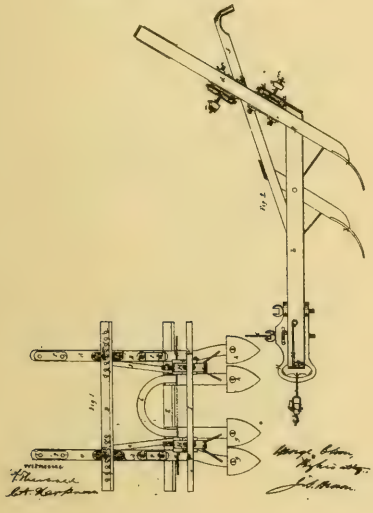
R. H. Avery, 2 Sheets, Sheet 1.
Cultivator.
No. 110,419. Patented Dec. 27, 1870.



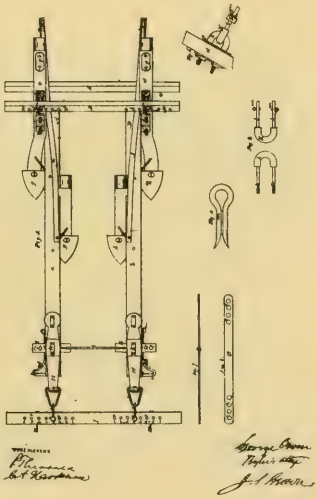
R. H. Avery, 2 Sheets, Sheet 2.
Cultivator.
No. 110,419. Patented Dec. 27, 1870.



G. Owen, 2 Sheets, Sheet 1.
Plow Coupling.
No. 112,273. Patented Feb. 28, 1871.



G. Owen, 2 Sheets, Sheet 2.
Plow Coupling.
No. 112,273. Patented Feb. 28, 1871.

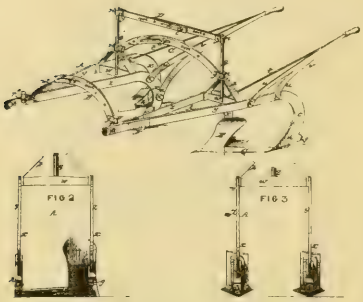


M. P. SIMPSON

Improvement in Cultivators.

No. 114,483. Patented May 2, 1871.

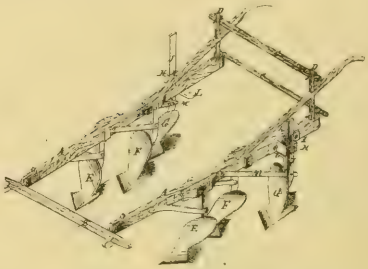
FIG 1



T. B. ROBERTS.

Improvement in Cultivators

No. 116,100. Patented June 20, 1871.

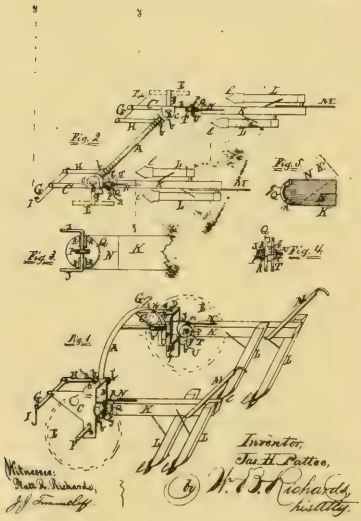


Witnesses: Inventor: Attorneys.

J. H. PATTEE.

Improvement in Cultivators.

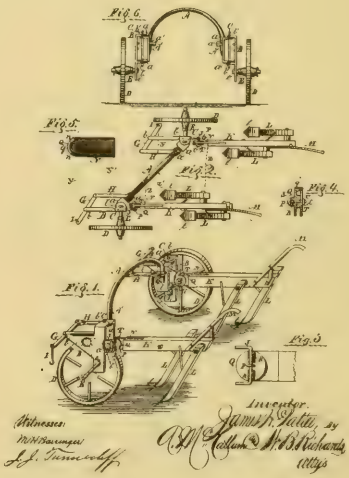
No. 124,218. Patented March 5, 1872.



J. H. PATTEE.

Cultivators.

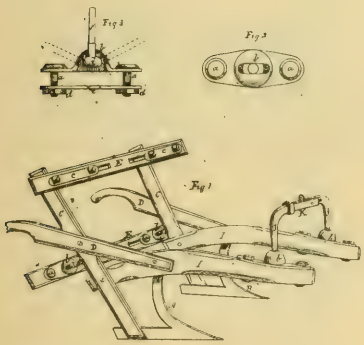
No. 6,080. Reissued Oct. 6, 1874.



CHARLES WARNER.

Improvement in Cultivators.

No. 124,922. Patented March 26, 1872



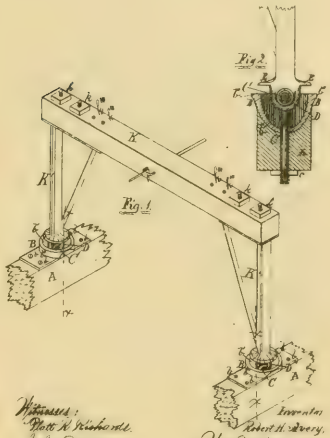
Witnesses
A. G. Parsons
Ch. Bickerton

Charles Warner
Inventor
W. P. C. Park
his Atty

ROBERT H. AVERY.

Improvement in Cultivators.

No. 127,293. Patented May 28, 1872.



Witnesses:
Platt N. Richards
J. J. Tunnicliff

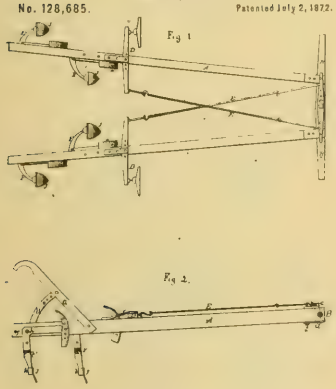
Inventor
Robert H. Avery,
by W. B. Richards,
his Atty.

2 Sheets--Sheet 1.

C. H. WATSON.

Improvement in Cultivators.

No. 128,685. Patented July 2, 1872.



Witnesses:
J. A. Parsons
J. E. Cullen

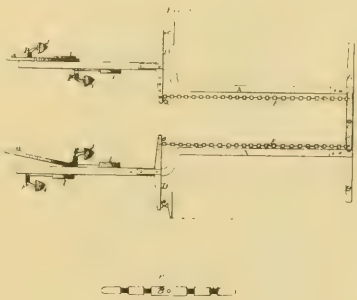
Inventor.
Chas. H. Watson.

2 Sheets--Sheet 2.

C. H. WATSON.

Improvement in Cultivators

No. 128,685. Patented July 2, 1872.



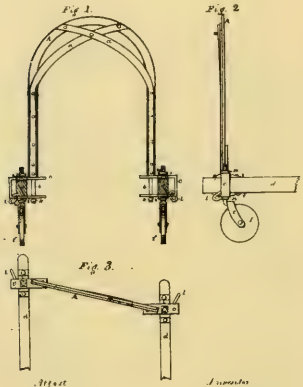
Witnesses
J. A. Parsons
J. E. Cullen

Inventor
Chas. H. Watson

R. M. MILLER.

Improvement in Plows.

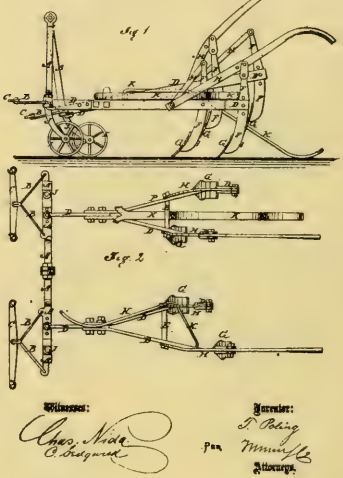
No. 129,418 Patented July 16, 1872



T. POLING.

Improvement in Cultivators.

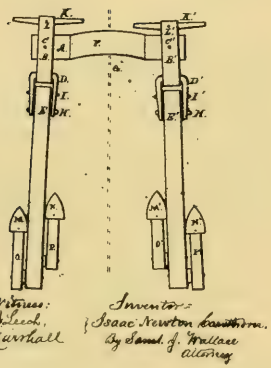
No. 130,440. Patented Aug. 13, 1872.



I. N. CAUTHORN:

Cultivators.

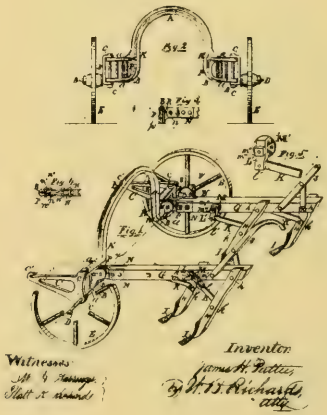
No. 134,732. Patented Jan. 14, 1873.



J. N. PATTEE.

Cultivators.

No. 135,148. Patented Jan. 21, 1873.



2 Sheets--Sheet 1.

J. HELM.
Cultivators.

No. 138,085. Patented April 22, 1873.

Fig. 1.

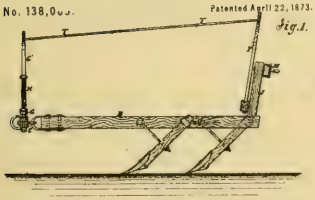
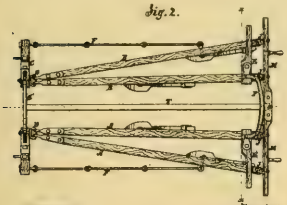


Fig. 2.



Witnesses:
J. Armstrong
C. Sedgwick

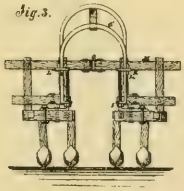
Inventor:
J. Helm
Per Munn & Co
Attorneys.

2 Sheets--Sheet 2.

J. HELM.
Cultivators.

No. 138,085. Patented April 22, 1873.

Fig. 3.



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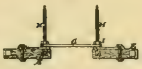
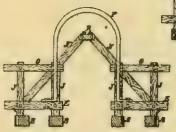


Fig. 6.

Fig. 4.



Witnesses:
J. Armstrong
C. Sedgwick

Inventor:
J. Helm
Per Munn & Co
Attorneys.

T. L. THRASHER.
Plow-Couplings.

No. 141,964. Patented August 19, 1873.

Fig. 1.

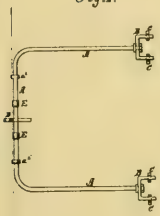


Fig. 2.

Witnesses:
J. Armstrong
C. Sedgwick

Inventor:
T. L. Thrasher
Per Munn & Co
Attorneys.

S. CRUTCHER.
Cultivators.

No. 144,321. Patented Nov. 4, 1873.

Fig. 1

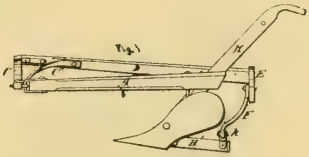


Fig. 2

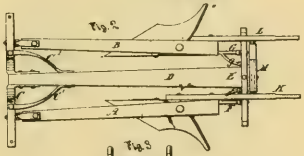
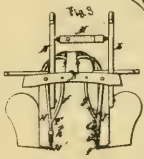


Fig. 3

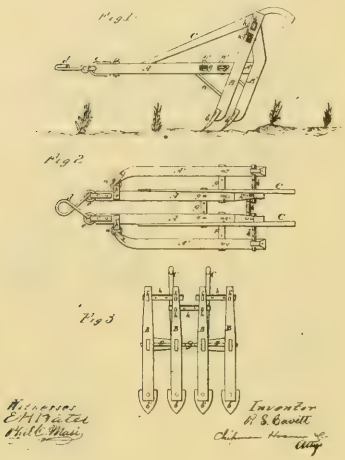


Witnesses:
W. Hussey
C. H. Duell
A. Copfert

S. Crutcher
Inventor.
Per Munn & Co
Attys.

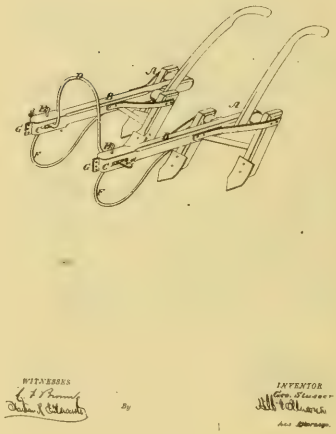
R. S. CAVETT.
Cultivators.

No. 144,740. Patented Nov. 18, 1873.



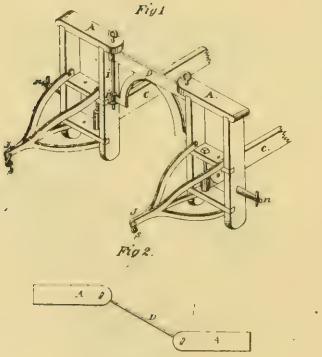
G. SLUSSER.
Cultivators.

No. 145,690. Patented Dec. 16, 1873.



A. COOPER.
Cultivators.

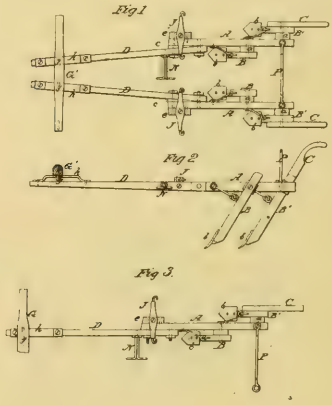
No. 145,848. Patented Dec. 23, 1873.



2 Sheets--Sheet 1.

W. M. WATSON.
Cultivators.

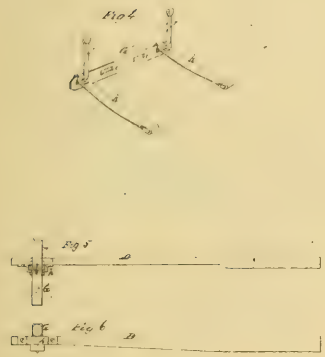
No. 151,733. Patented June 9, 1874.



2 Sheets--Sheet 2.

W. M. WATSON.
Cultivators.

No. 151,733. Patented June 9, 1874.



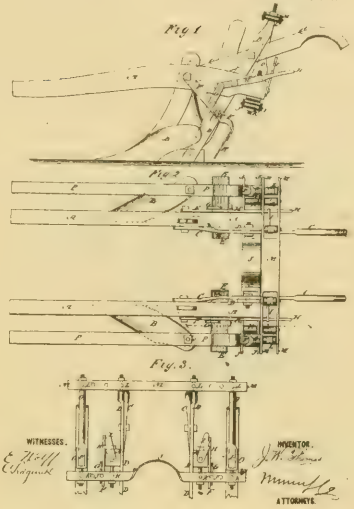
WITNESSES

INVENTOR

ATTORNEYS

J. W. THOMAS
Plows.

No. 151,808. Patented June 9, 1874.



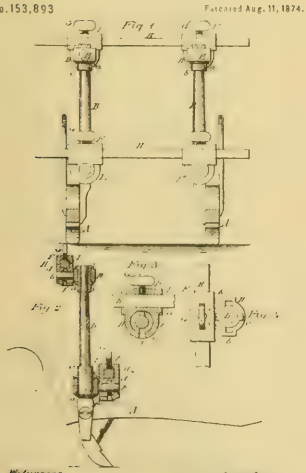
WITNESSES.

INVENTOR.

ATTORNEYS.

J. M. GARDNER.
Plow-Couplings.

No. 153,893 Patented Aug. 11, 1874.

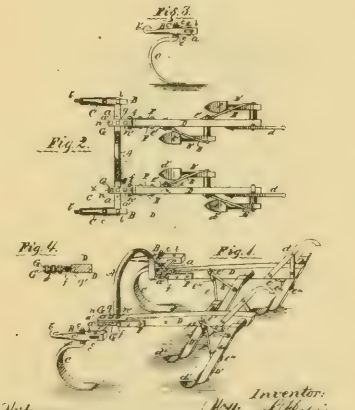


Witnesses

Inventor.

W. L. HOPPER.
Cultivators.

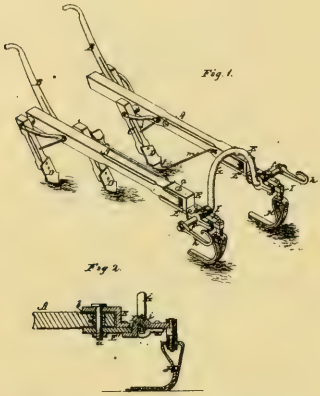
No. 156,159. Patented Oct. 20, 1874.



Witnesses:

Inventor:

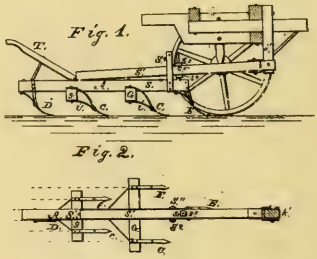
J. MARKEE & W. E. SPICER.
Cultivators.
No. 157,014. Patented Nov. 17, 1874.



WITNESSES
H. Gray Griffin
C. L. Emch.

INVENTOR
Jesse Markee
Wm. E. Spicer.
per Chas. E. Fraser
Ed. Geo. Ritchie, Attorneys

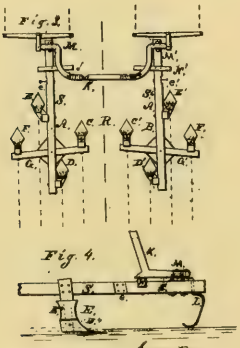
2 Sheets--Sheet 1.
J. L. GRAHAM & S. J. WALLACE.
Cultivators.
No. 157,125. Patented Nov. 24, 1874.



Witness:
A. Holland
R. M. Merrihall

Inventors
Samuel Jacob Wallace,
John Lindsey Graham,
by Saml. J. Wallace.
Attorney.

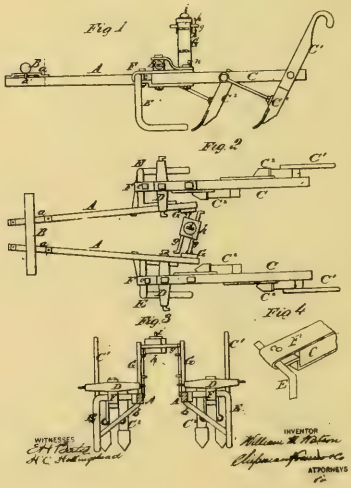
2 Sheets--Sheet 2.
J. L. GRAHAM & S. J. WALLACE.
Cultivators.
No. 157,125. Patented Nov. 24, 1874.



Witness:
A. Holland.
R. M. Merrihall.

Inventors:
Samuel Jacob Wallace,
John Lindsey Graham.
by Saml. J. Wallace.
Attorney.

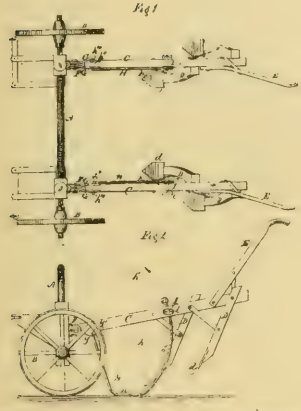
W. H. WATSON.
Cultivators.
No. 157,895. Patented Dec. 15, 1874.



WITNESSES
E. H. Reeds
H. C. Hollingshead

INVENTOR
William H. Watson
Cliffe & Fraser & Co
ATTORNEYS

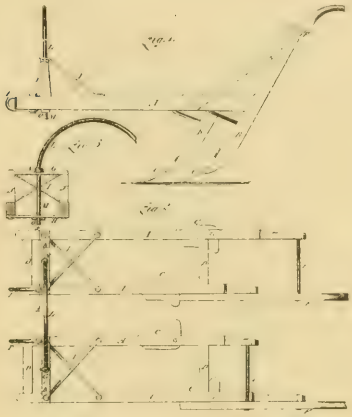
W. H. ROBERTSON.
Cultivator.
No. 162,577 Patented April 27, 187



Witnesses
D. B. Stuart

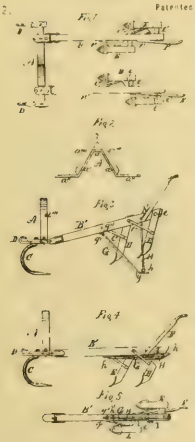
Inventor
William H. Robertson
By W. S. Walker
Atty.

L. G. CLAWSON.
Corn-Plow
No 162,798. Patented May 4, 1875



Witnesses:
Inventor:
Per
Attorneys.

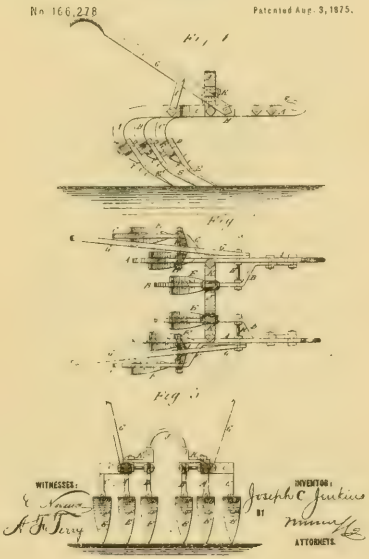
W. L. HOPPER.
Cultivator.
No 164,272. Patented June 15, 1875



Witnesses
D. B. Stuart

Inventor
William L. Hopper
By W. S. Richards
Atty.

J. C. JENKINS.
Cultivator.
No 166,278 Patented Aug. 3, 1875.

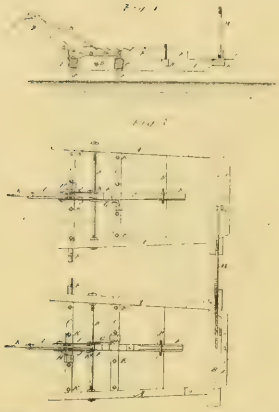


WITNESSES:
A. F. Perry

INVENTOR:
Joseph C. Jenkins
BY
ATTORNEYS.

M. McNITT
Cultivator.

No. 167,456 Patented Sept 7 1875



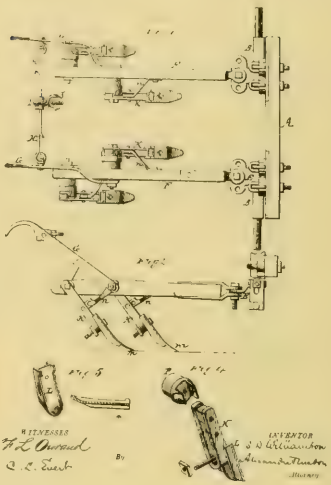
WITNESSES:
C. Nurse
A. F. Terry

INVENTOR:
Martin McNitt
BY
Munn & Co
ATTORNEYS.

S. D. WILLIAMSON.
DOUBLE-PLOW

2 Sheets—Sheet 1

No. 170,146 Patented Nov. 16, 1875.



WITNESSES
W. L. Durand
C. R. Ewart

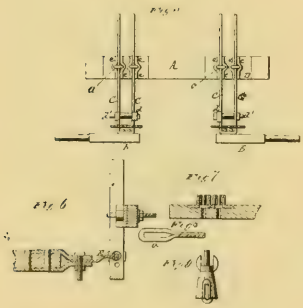
By

INVENTOR
S. D. Williamson
Alexander Hunter
Attorney

S. D. WILLIAMSON.
DOUBLE-PLOW

2 Sheets—Sheet 2.

No. 170,146. Patented Nov. 16, 1875.



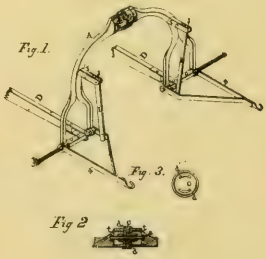
WITNESSES
W. L. Durand
C. R. Ewart

By

INVENTOR
Samuel D. Williamson
Alexander Hunter
Attorney

T. J. PRICE & A. HUNT.
CULTIVATOR.

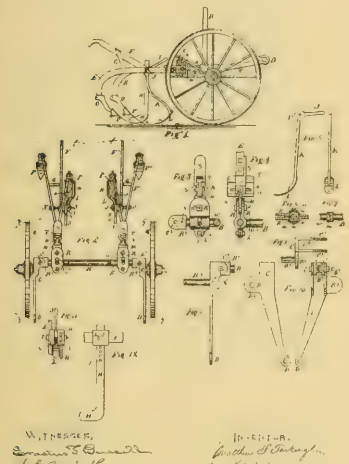
No. 170,395. Patented Nov. 23, 1875



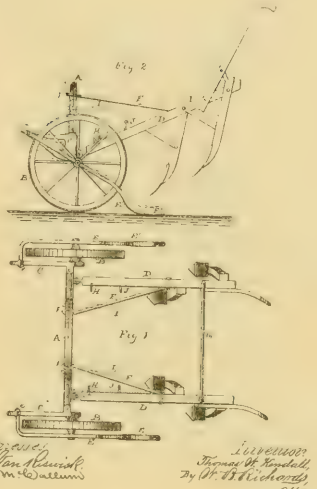
WITNESSES.
A. J. Thomas
W. C. Thomas

INVENTORS
Thos. J. Price
A. Hunt

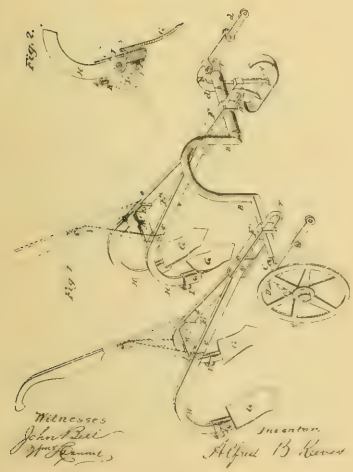
M. S. TARKINGTON.
CULTIVATOR.
No. 174,320. Patented Feb. 29, 1876.



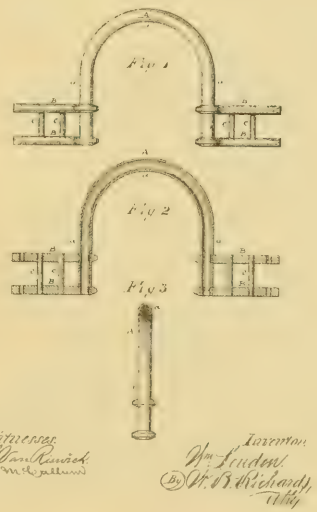
T. W. KENDALL
CULTIVATOR
No. 174,684. Patented March 14, 1876.



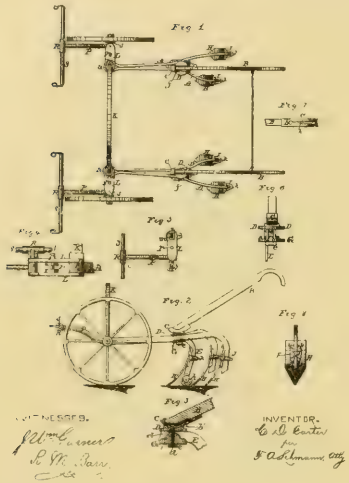
A. B. REEVES.
CULTIVATOR.
No. 175,256. Patented March 28, 1876.



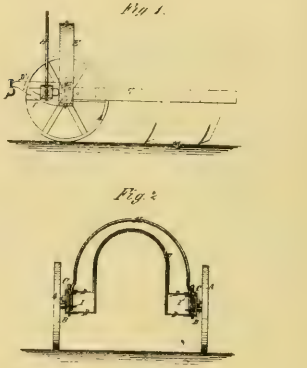
W. LOUDEN.
CULTIVATOR.
No. 177,258. Patented May 9, 1876



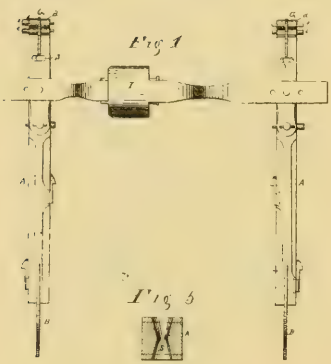
C. D. CARTER.
CULTIVATOR.
No. 178,410. Patented June 6, 1876.



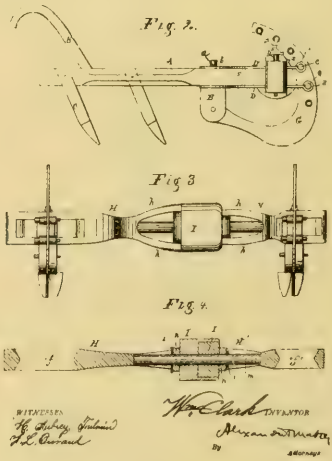
[illegible]
No. 182,449 Patented [illegible] 19, 1876.



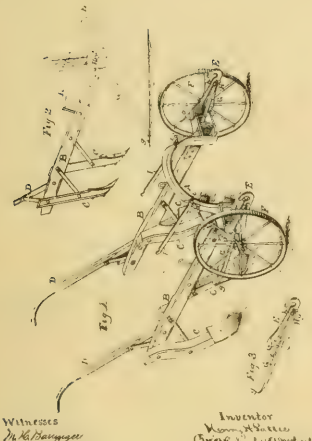
2 Sheets—Sheet 1
W. CLARK.
DOUBLE PLOWS.
No. 184,590. Patented Nov. 21, 1876.



2 Sheets—Sheet 2
W. CLARK.
DOUBLE PLOWS.
No. 184,590 Patented Nov. 21, 1876.

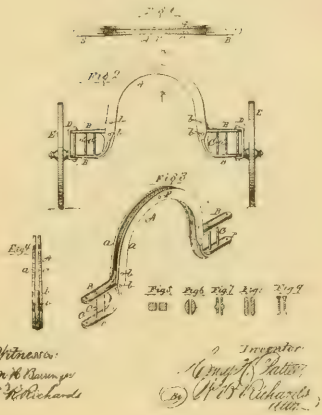


H. H. PATTEE.
CULTIVATOR.
No. 187,895. Patented Feb. 27, 1877.



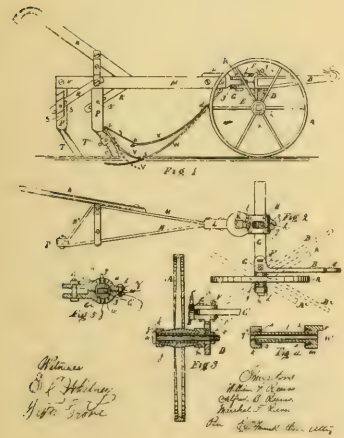
Witnesses
Inventor

H. H. PATTEE.
CULTIVATOR
No. 187,895. Patented Feb. 27, 1877



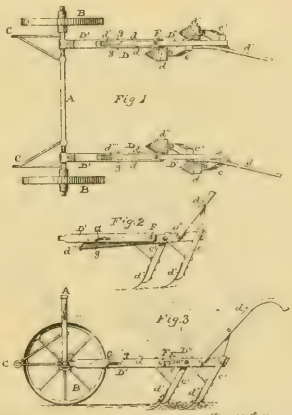
Witnesses:
Inventor.

W. F., A. B. & M. T. REEVES.
TONGUE-AND-SLOW
No. 187,983. Patented March 6, 1877.



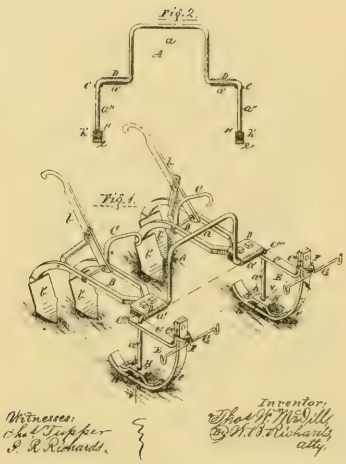
Witnesses
Inventors

R. W. ALEXANDER.
CULTIVATOR
No. 190,179. Patented May 1 1877.

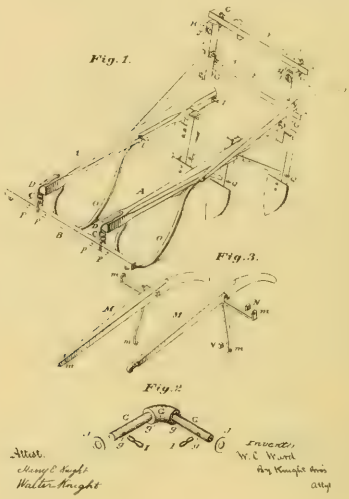


Witnesses:
Inventor:

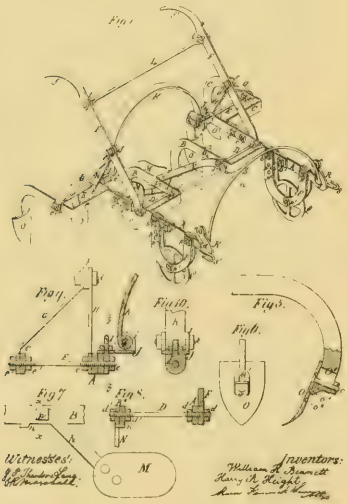
T. W. McDILL.
CULTIVATOR.
No. 190,606. Patented May 8, 1877



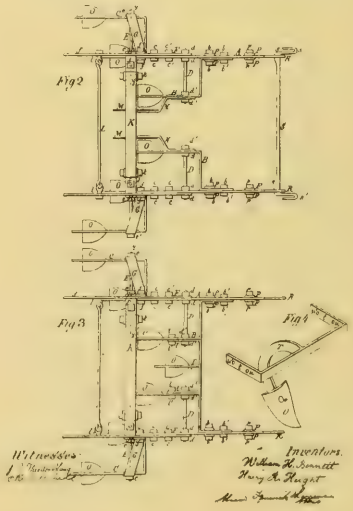
W. C. WARD.
CULTIVATOR.
No. 193,059. Patented July 10, 1877.



2 Sheets—Sheet 1.
W. H. BENNETT & H. R. HEIGHT.
CULTIVATOR-PLOW.
No. 193,362. Patented July 24, 1877.

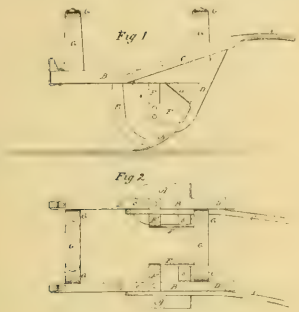


2 Sheets—Sheet 2
W. H. BENNETT & H. R. HEIGHT.
CULTIVATOR-PLOW.
No. 193,362. Patented July 24, 1877



C. McGEE.
CULTIVATOR.

No. 193,532. Patented July 24, 1877.

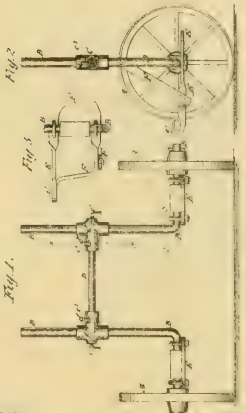


WITNESSES:

INVENTOR:
Chas McGee
BY
ATTORNEYS.

J. C. B. THOMAS.
CULTIVATORS

No. 194,190. Patented Aug. 14, 1877.

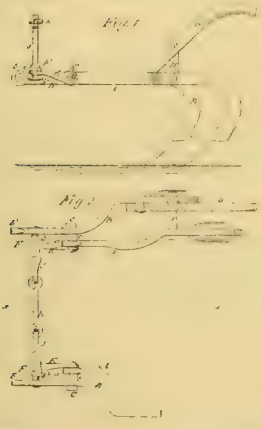


WITNESSES:
E. Wolff
J. H. Fairbourough

INVENTOR:
J. C. B. Thomas
BY
ATTORNEYS.

J. SUMMERS & J. TRIMBLE.
CULTIVATORS.

No. 194,482. Patented Aug. 21, 1877.

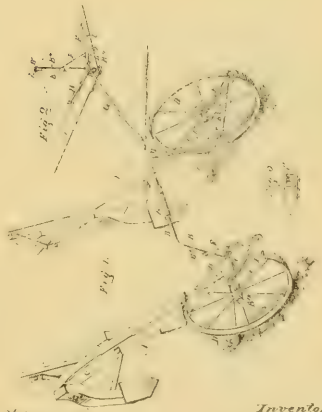


WITNESSES:
E. Wolff
J. H. Fairbourough

INVENTORS:
J. Summers
J. Trimble
BY
ATTORNEYS.

J. H. PATTEE
CULTIVATORS.

No. 195,042. Patented Sept. 11, 1877.

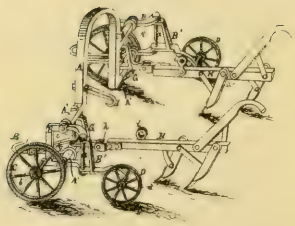


Witnesses:
W. C. Kerniger
Harry McCleverdon

Inventor:
James H. Pattee
By Chas. W. Richardson
Atty.

H. S. HOYMAN
Cultivator.

No. 196,903. Patented Nov 6. 1877.

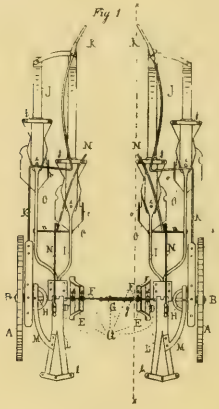


WITNESSES
Henry T. Miller
Hank Fall

INVENTOR
H. S. Hoyman.
Church Howard
ATTORNEYS

2 Sheets—Sheet 1
J. M. LUDLOW & S. C. PRUITT
Cultivator

No. 198,204. Patented Dec. 18, 1877

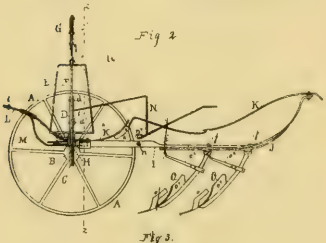


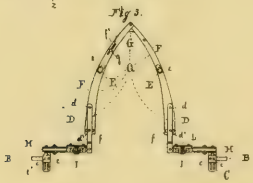
WITNESSES
Thomas B. Lyons.
Wm. E. Hand

INVENTORS
John M. Ludlow
Sanford C. Pruitt
per R. Bradford
Attorney

2 Sheets—Sheet 2
J. M. LUDLOW & S. C. PRUITT.
Cultivator.

No. 198,204. Patented Dec. 18, 1877



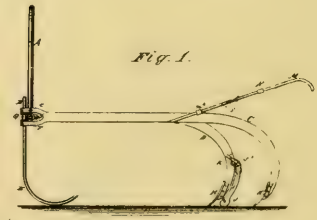


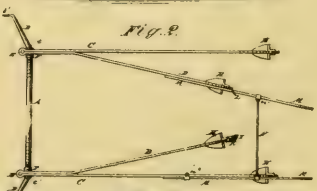
WITNESSES
Thomas B. Lyons
Wm. E. Hand

INVENTORS
John M. Ludlow
Sanford C. Pruitt
per R. Bradford
Attorney

R. H. SLIFER
Cultivators.

No. 198,698. Patented Dec. 25, 1877.



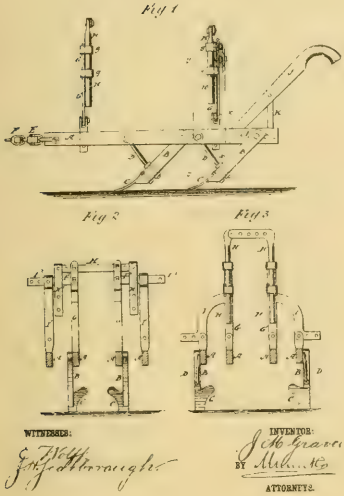


WITNESSES:
Wm. Rodgers
Wyanborough

INVENTOR:
R. H. Slifer
Munn & Co
ATTORNEYS.

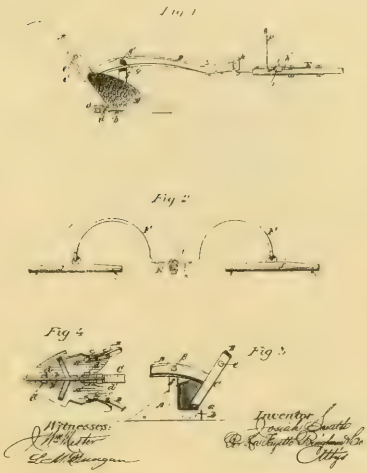
J. M. GRAVES.
Cultivator.

No. 199,972. Patented Feb. 5, 1878.



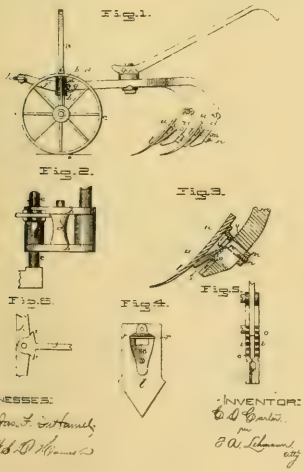
J. SMITH
Corn-Cultivator

No 202,763. Patented April 23, 1878



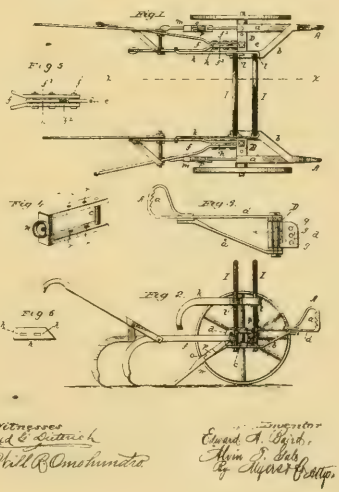
C. D. CARTER.
Cultivator.

No. 204,883. Patented June 18, 1878



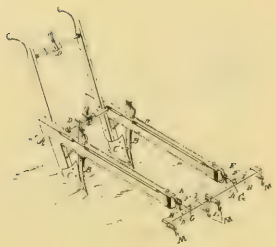
E. A. BAIRD & A. T. GALE.
Cultivator.

No. 211,314. Patented Jan. 14, 1879.



J. A. J. W. PARKER.
Plow.

No. 219,509. Patented Sept. 9, 1879.

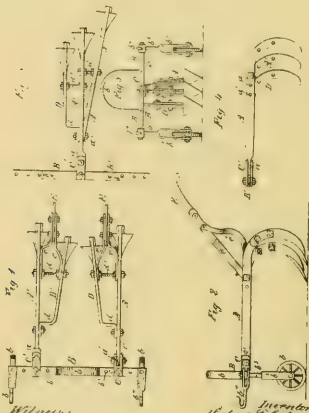


WITNESSES
Edward E. Crawford
J. McElaine

INVENTOR
J. A. J. W. Parker
By H. F. Ennis
ATTORNEY.

R. F. GIBSON & S. M. COWDEN.
Cultivator

No. 219,710. Patented Sept. 16, 1879.

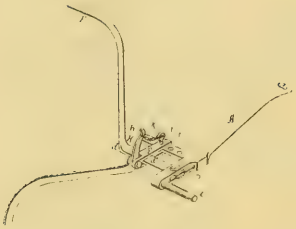


Witnesses
Chas. Williams

Inventors
Richard F. Gibson
by Silas M. Cowden
Alex. Otto
Atty

W. P. BROWN.
Cultivator.

No. 220,571. Patented Oct. 14, 1879.



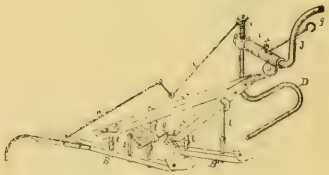
WITNESSES
Robt. Smith
James J. Shedy

INVENTOR
William P. Brown
Gilmore, Smith & Co.
ATTORNEYS

(No Model.)

J. G. EVANS.
Cultivator

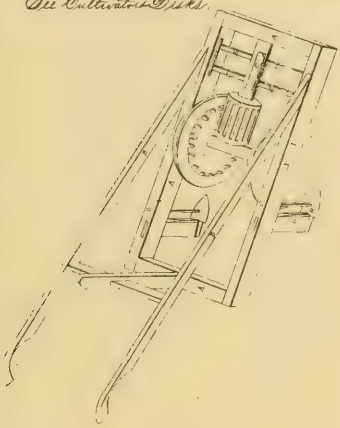
No. 237,376. Patented Feb. 8, 1881.



WITNESSES.
T. J. Price
H. T. Bird

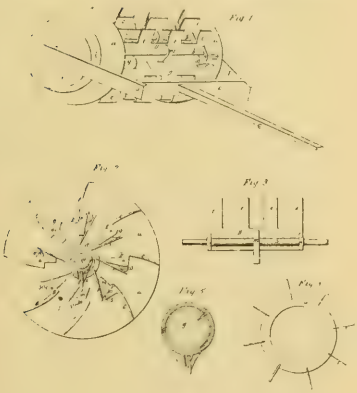
INVENTOR.
James G. Evans

J. Gatling.
Rotary Cultivator.
See Cultivator Disks.

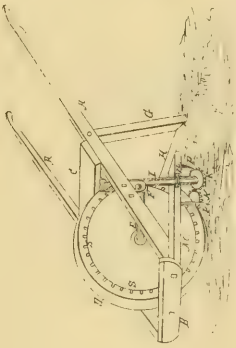


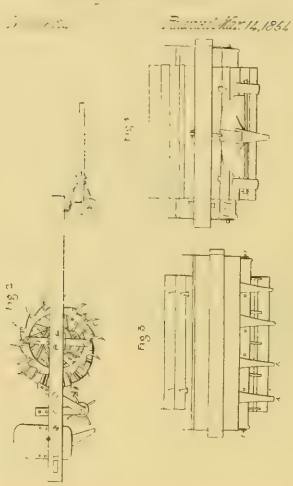
Schermerhorn & Porter.
Rotary Cultivator.
Patented Apr. 10, 1849.

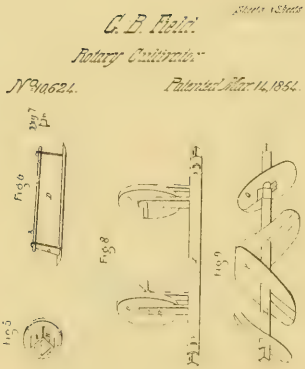
J. Young.
Rotary Cultivator.

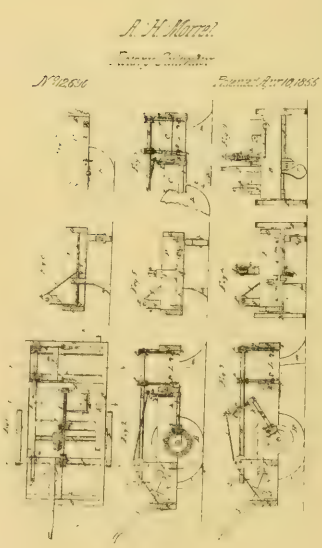


T. J. Tuthill.
Rotary Cultivator.
Patented Feb. 6, 1849.

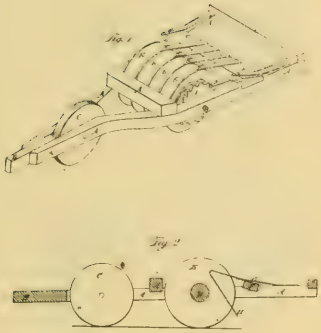




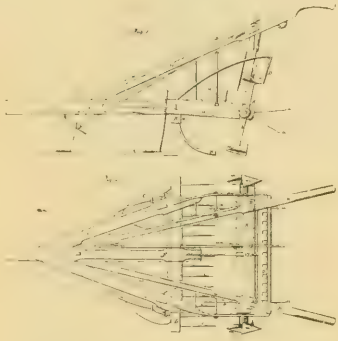




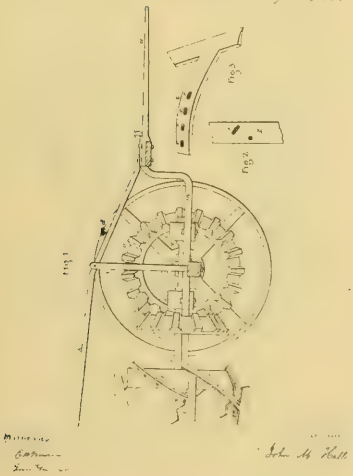
M. CRENSHAW.
Rotary Harrow
No. 14 533 Patented Mar. 25, 1856



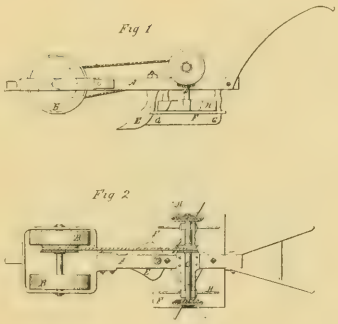
J. Zimmerman.
Rotary Cultivator
No. 15 253 Patented Jul. 22 1856

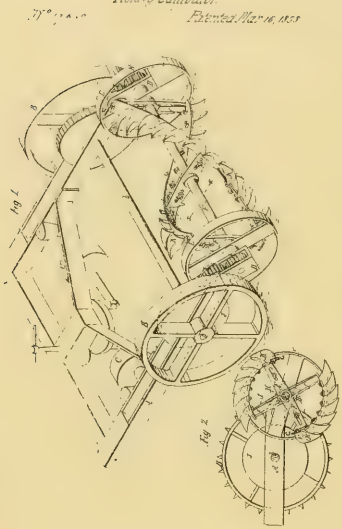


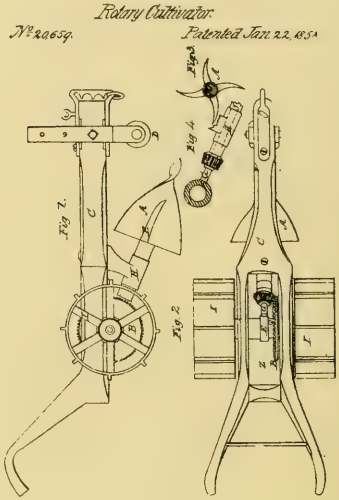
J. M. Hall.
Rotary Cultivator
No. 17,091. Patented June 2, 1857.

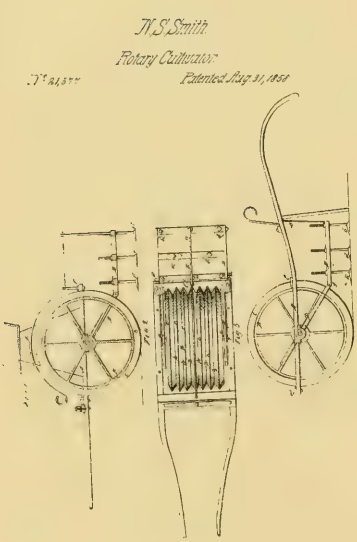


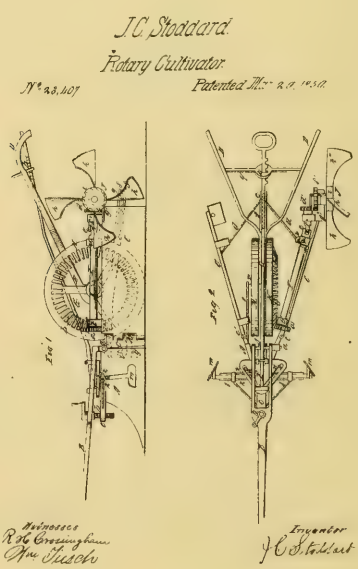
J. Whitehead.
Rotary Cultivator
No. 17,467. Patented Jun. 2, 1857.




L. Roden
Rotary Cultivator.
Patented Mar 16, 1858
Fig 1.
Fig 2.


H. M. Platt.
Rotary Cultivator.
No 20659.
Patented Jan 22, 1858
Fig 1.
Fig 2.
Fig 3.
Fig 4.

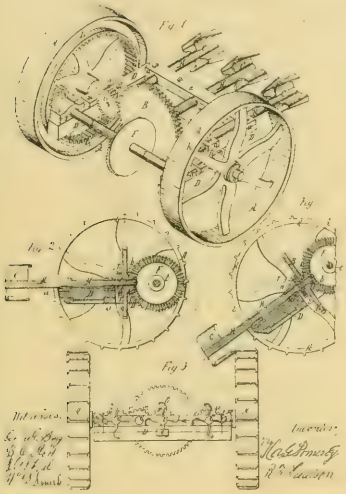

N. S. Smith
Rotary Cultivator.
Patented Aug 31, 1858
Fig 1
Fig 2
Fig 3


J. C. Stoddard.
Rotary Cultivator.
Patented Mar 2, 1858.
No 23,107
Fig 1
Fig 2
Witnesses
R. H. Cunningham
Geo. Tusch
Inventor
J. C. Stoddard

Pomeroy & Hudson.

Rotary Cultivator.

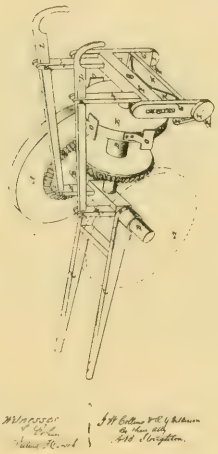
No. 28,657. Patented Jan. 12, 1860.



Collins V. Williamson.

Rotary Cultivator.

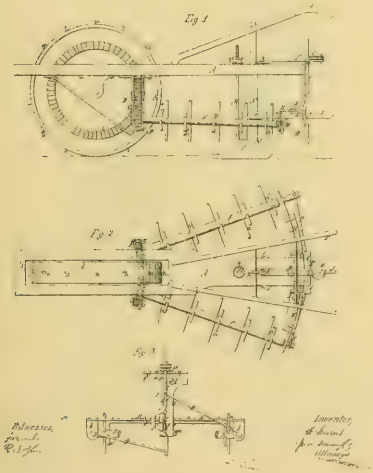
No. 30,721. Patented Nov. 27, 1860.



L. Stevens.

Rotary Cultivator.

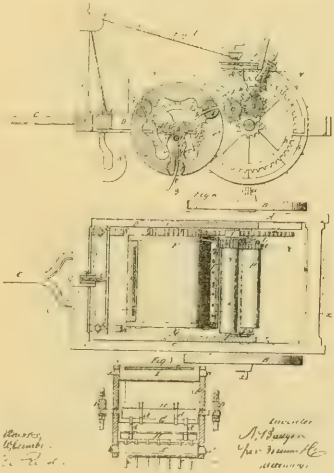
No. 30,771. Patented Nov. 27, 1860.



N. Badger.

Rotary Cultivator.

No. 30,173. Patented Feb. 23, 1860.



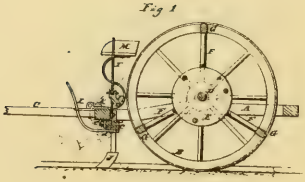
Sheet 1, 2 Sheets.

Dikeman & Hewlett.

Rotary Cultivator.

No. 35,087 Patented Apr. 29, 1862.

Fig. 1



Witnesses

Inventors:

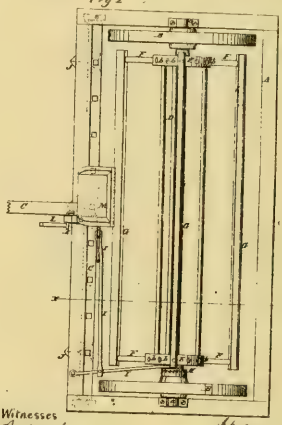
Sheet 2, 2 Sheets.

Dikeman & Hewlett.

Rotary Cultivator.

No. 35,087 Patented Apr. 29, 1862.

Fig. 2



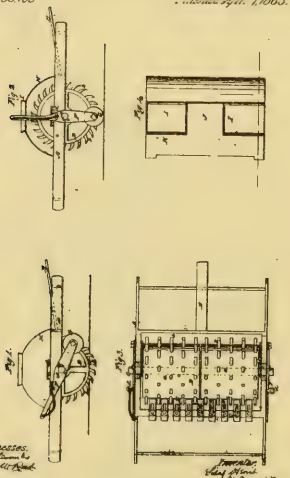
Witnesses

Inventors

S. Hom.

Rotary Cultivator.

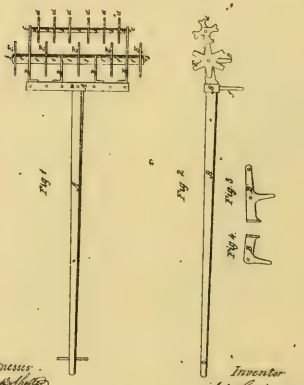
No. 38,109 Patented Apr. 7, 1863.



J. C. Ernst.

Rotary Harrow.

No. 39,389 Patented Aug. 4, 1863.



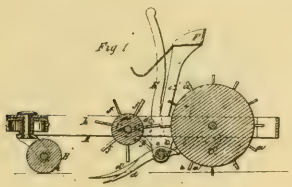
Witnesses

Inventor

W. Wadsworth.

Rotary Cultivator.

No. 43,808. Patented Aug. 9, 1864.



Witnesses

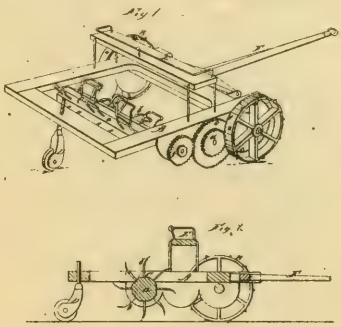
Inventor

W. Wadsworth

J. Johnson.

Rotary Cultivator.

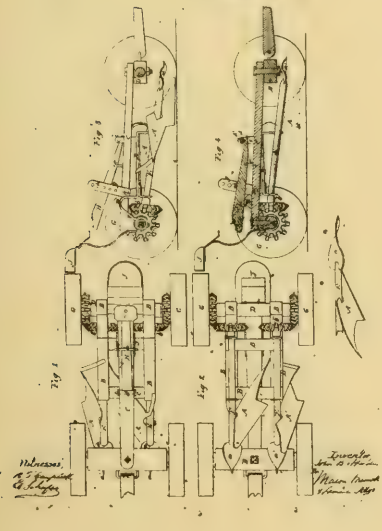
No. 45,429. Patented Nov. 29, 1864.



J. B. Atwater.

Gang Plow.

No. 48,781 Patented Mar. 14, 1865.



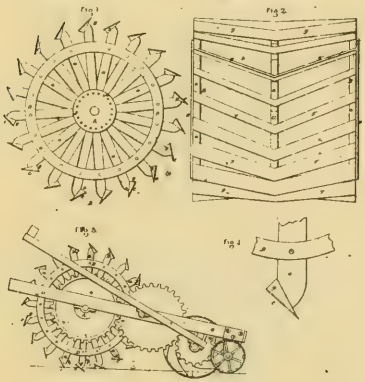
Witnesses:

Inventor

W. S. Pittman.

Rotary Cultivator.

No. 47,005 Patented Mar. 28, 1865.



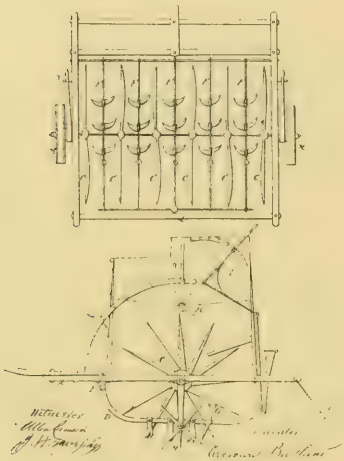
Witnesses:

Inventor

E. Dalton.

Rotary Cultivator.

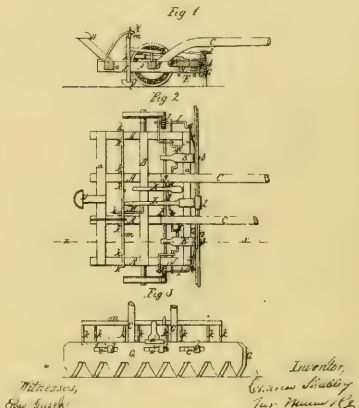
No. 50,138 Patented Oct. 17, 1865.



C. Shibley.

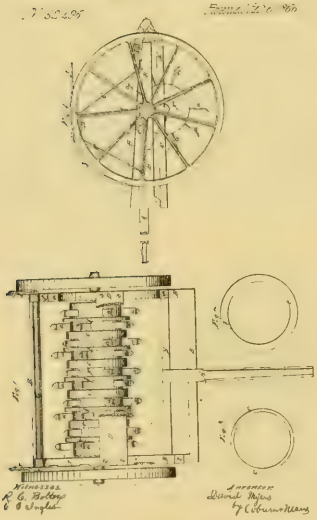
Rotary Cultivator.

No. 51,757. Patented Dec. 26, 1865.



D. Myers.

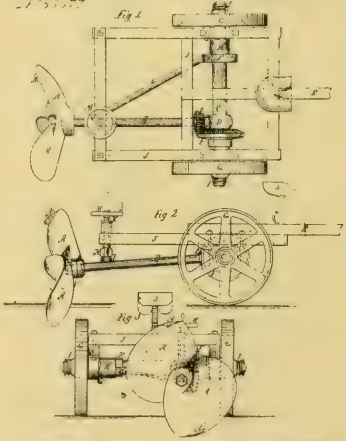
Rotary Cultivator.



L. H. Colborn.

Rotary Cultivator.

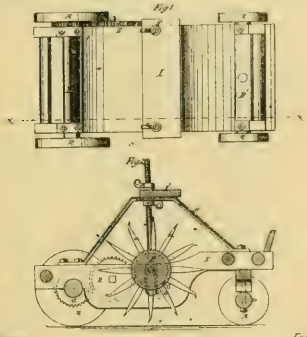
Patented Nov. 3, 1868.



A. Thompson.

Rotary Cultivator.

No. 68,319. Patented Sep. 25, 1866.

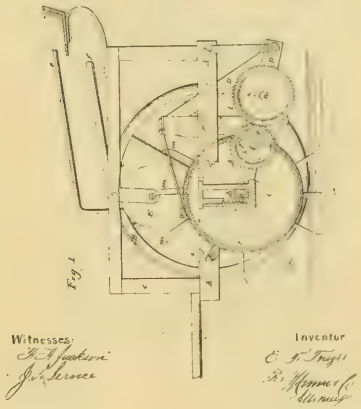


Witnesses: Inventor: A. Thompson, per Munn & Co. Attorneys.

E. J. Frazer.

Rotary Cultivator.

No. 58,545. Patented Oct. 9, 1866.

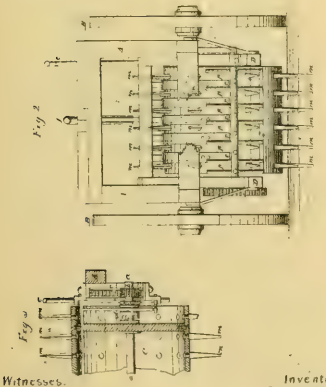


Witnesses: Inventor: E. J. Frazer, per Munn & Co. Attorneys.

E. J. Frazer.

Rotary Cultivator.

No. 58,545. Patented Oct. 9, 1866.

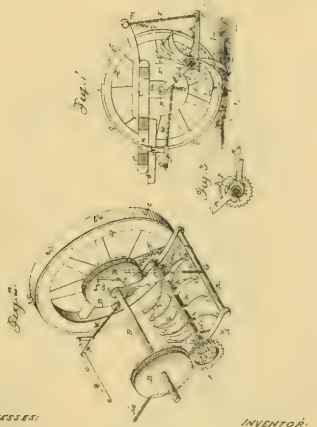


Witnesses. Inventor. E. J. Frazer, per Munn & Co. Attorneys.

J. C. FITZGERALD.

Rotary Cultivator.

No. 60,164. Patented Dec. 4, 1866.

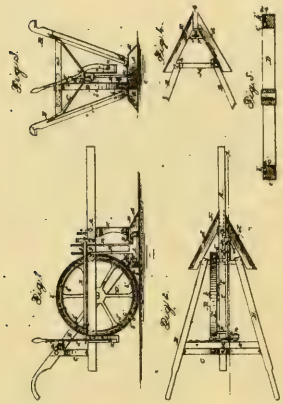


WITNESSES: INVENTOR: J. C. Fitzgerald, by Munn & Co. Attys.

A. K. & R. H. FOSTER.

Rotary Cultivator.

No. 60,825. Patented Dec 18, 1866.



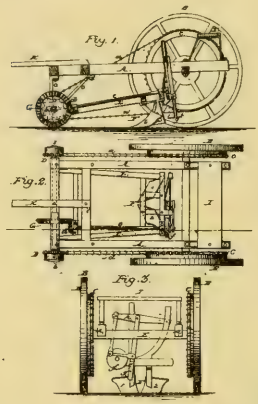
WITNESSES:

INVENTOR

C. A. McCAUGHAN

Rotary Cultivator

No. 61,846 Patented Feb 5, 1867



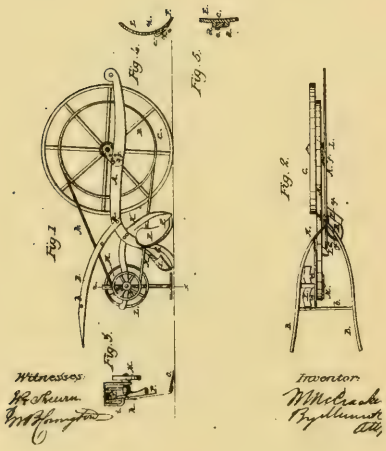
Witnesses:

Inventor.

W. McCRACKEN.

Rotary Cultivator.

No 62,660 Patented Mar 5. 1867



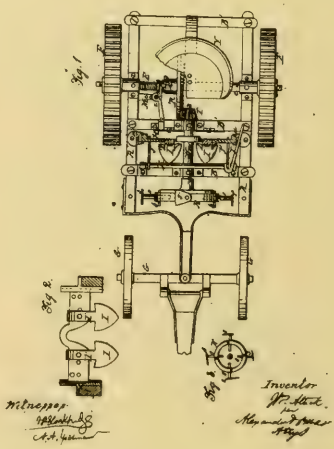
Witnesses:

Inventor:

W. ALTICK.

Rotary Cultivator.

No 64,057 Patented Apr 23, 1867.



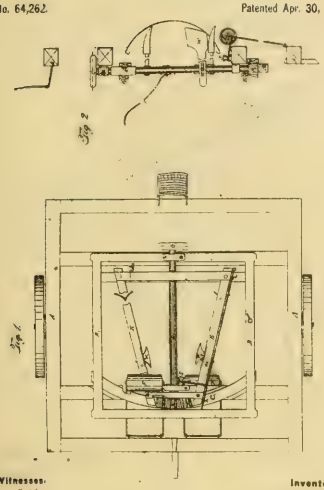
Witnesses:

Inventor

J. P. TARNUTZER.

Rotary Cultivator.

No. 64,262. Patented Apr. 30, 1867.



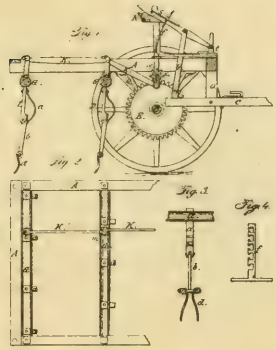
Witnesses.

Inventor.

SCHULTZ & ADAMS.

Rotary Cultivator.

No. 64,586. Patented May 7, 1867.



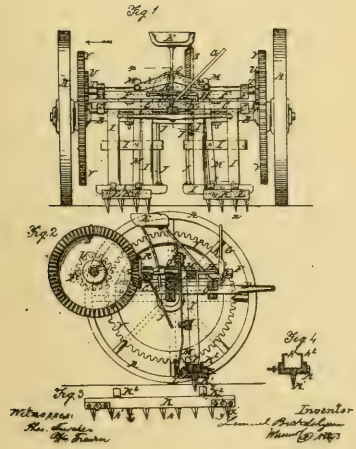
Witnesses.

Inventor.

L. BICKELSHYMER.

Rotary Cultivator.

No. 67,940. Patented Aug 20, 1867.



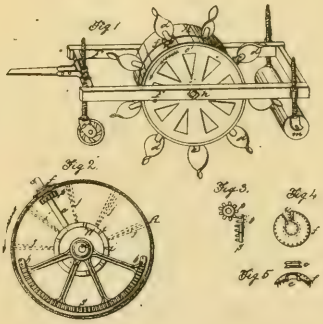
Witnesses.

Inventor

E. T. BUSSELL.

Rotary Cultivator

No. 68,410 Patented Sept 3, 1867.



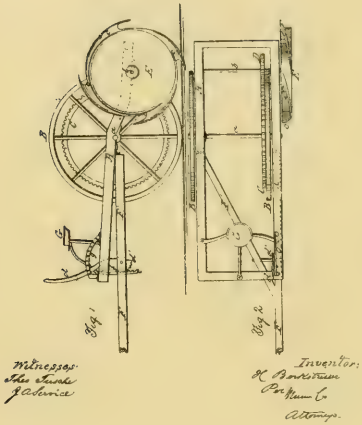
Witnesses.

Inventor

H. BERKSTRESSER.

Rotary Cultivator.

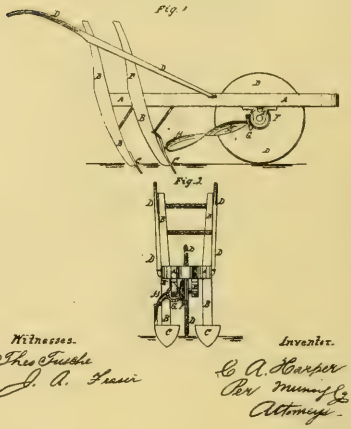
No. 68,889 Patented Sept. 10, 1867.



C. A. Harper.

Impd Cultivator.

No 73181 Patented Jan. 7, 1868.

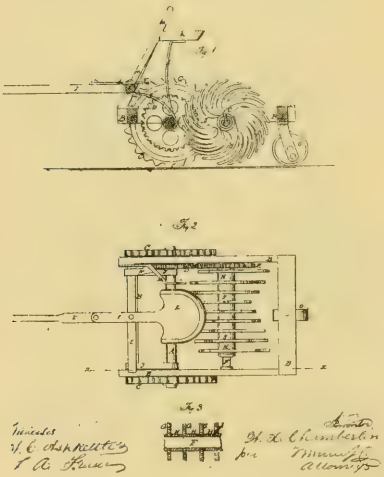


Sheet 1 2 Sheets

W H Chamberlin

Potato - Digger

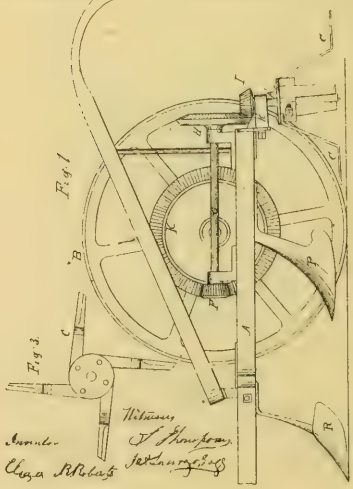
No 74 991. Patented March 3 1868



E. B. Roberts

Cultivator.

No 75578 Patented Mar 17 1868

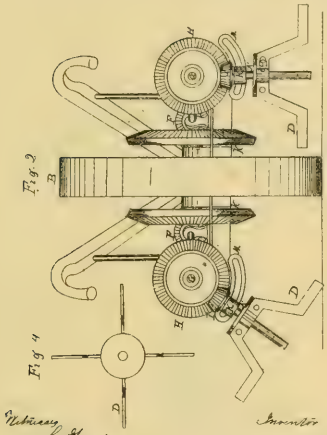


Sheet 2 - 2 Sheets

E. B. Roberts.

Cultivator.

No 75578 Patented Mar. 17, 1868.



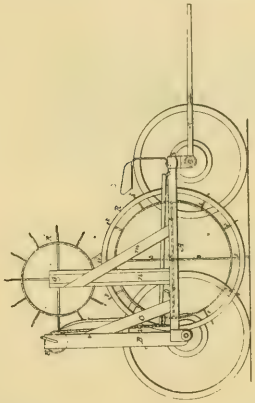
Witness
L. Thompson
J. A. Lawrence

Inventor
Elezer E. Roberts

J. W. Milroy.

Rotary Cultivator.

No 77830. Patented May 12, 1868.



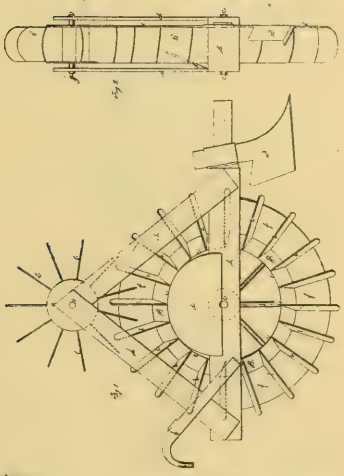
Witnesses
Jos. Ottey
J. D. Shepler

Inventor
J. W. Milroy
by J. H. Albright Atty

Vaughn & Chenneys,

Rotary Cultivator.

No 78031. Patented May 12, 1868.



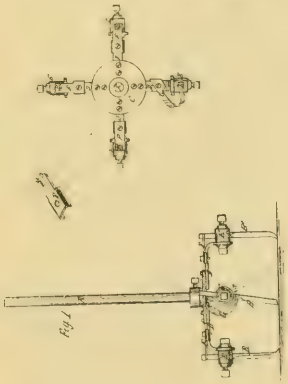
Witnesses
[illegible]
W. Russ

Inventor
[illegible]

P. H. Standish.

Rotary Cultivator.

No 78100. Patented May 26, 1868.



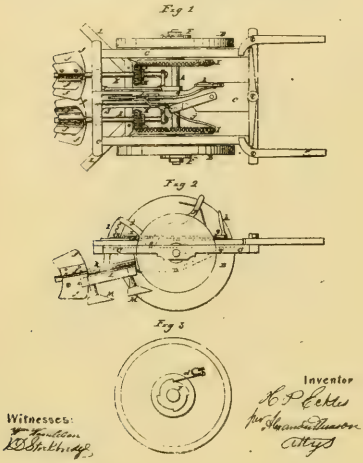
Witnesses
Geo. R. Stearns
Birmbrick

Inventor
P. Holcombe H. Standish

H. P. Eckles.

Rotary Cultivator.

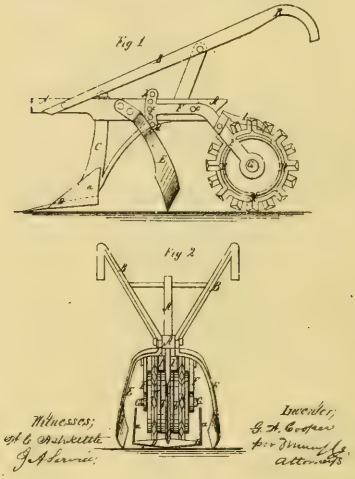
No. 78,442. Patented Jan. 2, 1868.



J. W. Cooper.

Rotary Cultivator.

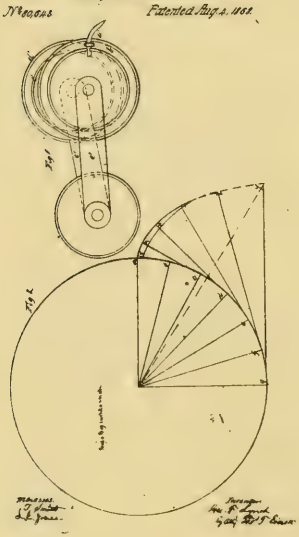
No. 80,604. Patented Aug. 4, 1868.



G. F. Lynch.

Rotary Cultivator.

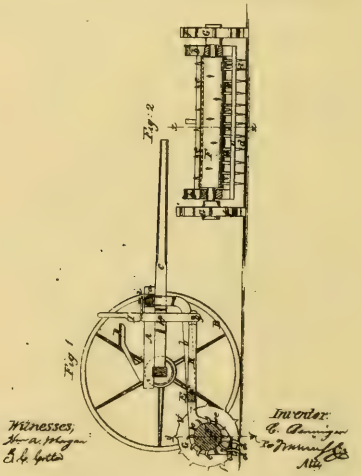
No. 90,005. Patented May 4, 1868.



C. Berninger.

Rotary Cultivator.

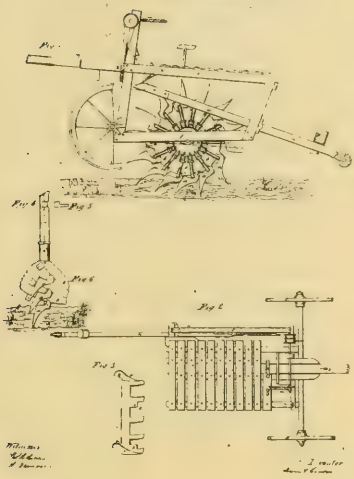
No. 91,333. Patented Aug. 25, 1868.



F. I. Coquim

Rotary Cultivator

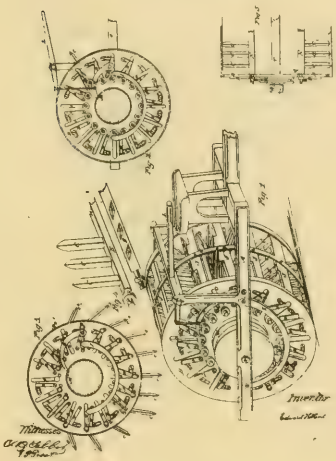
No. 13,456 Patented Oct 27, 1855



E. H. Kent

Rotary Cultivator.

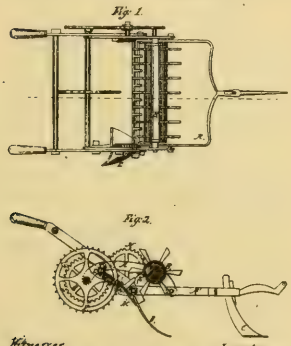
No. 12,639 Patented Nov 3, 1855



A. F. Storer.

Rotary Cultivator.

No. 84,016. Patented Nov 10, 1868.



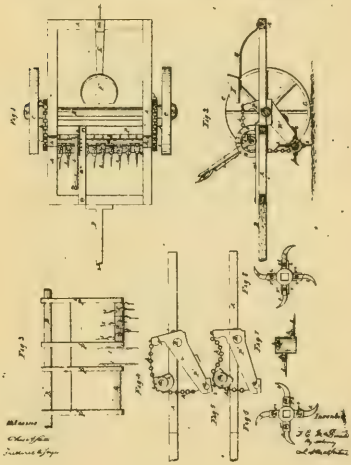
Witnesses

Inventor

T. E. McDonald.

Rotary Cultivator

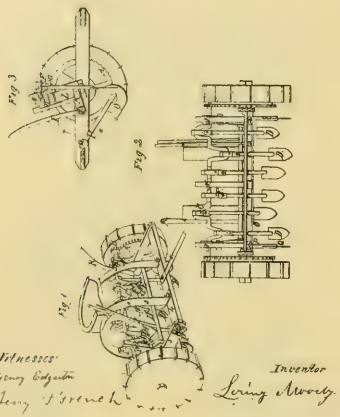
No. 84,450. Patented Nov 24, 1868



L. Moody

Rotary Cultivator.

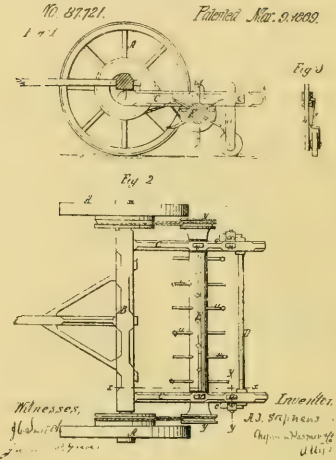
No. 85,010 Patented Dec. 15, 1868.



A. J. Stephens,

Cultivator.

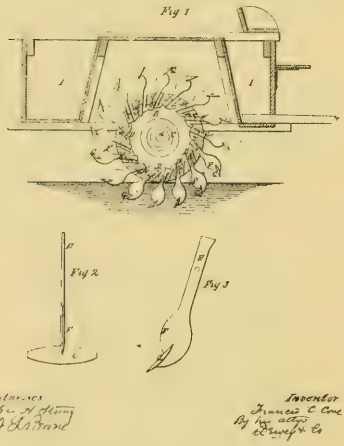
No. 87,721. Patented Mar. 9, 1869.



F. C. Cone

Spading Mach.

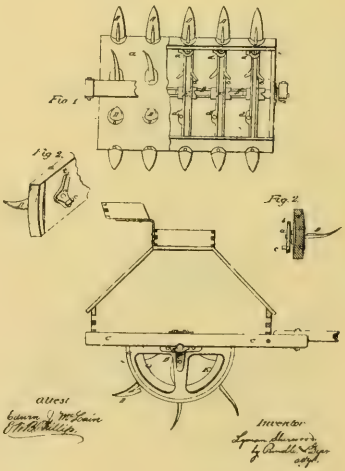
No. 88,358. Patented Mar. 30, 1869.



L. Sherwood,

Spading Mach.

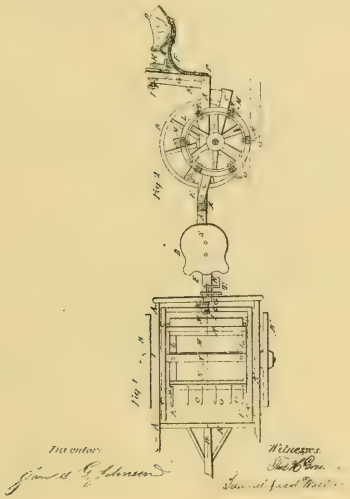
No. 92,756. Patented Jul. 20, 1869.



J. G. Johnson,

Cultivator and Stalk-Cutter.

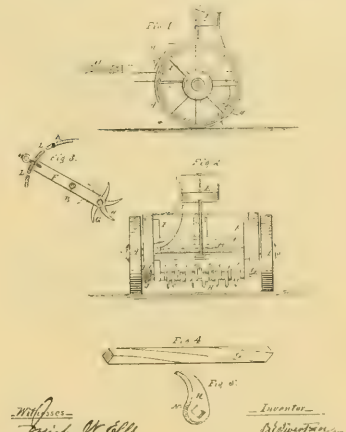
No. 92,834. Patented Jul. 20. 1869.



B. E. Swertsen.

Plow.

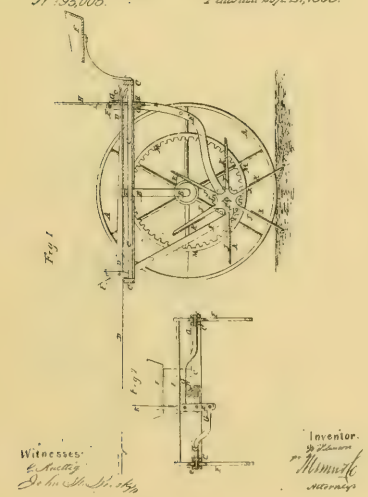
No. 93,238. Patented Aug. 3. 1869



W. I. Dawson.

Rotary Cultivator.

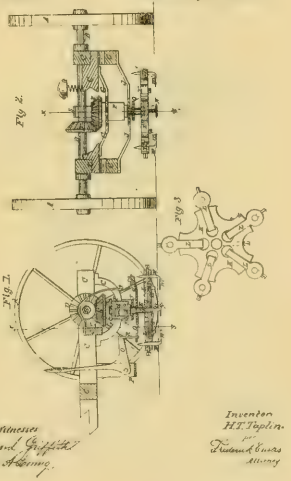
No. 95,005. Patented Sep. 21, 1869.



A. T. Taylor

Cultivator.

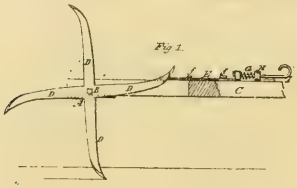
No. 96,391. Patented Nov. 28. 1869.

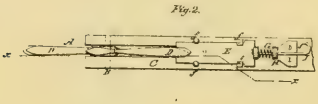


T. Uehling,

Cultivator.

No. 95,950. Patented Oct. 19, 1869.





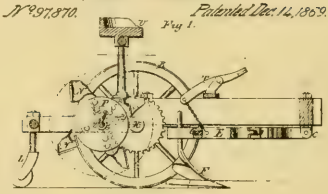
Witnesses
George H. Maher
Oscar Kirchman

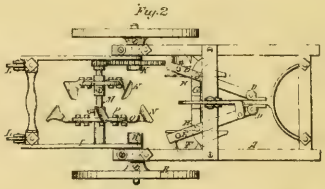
Inventor
T. Uehling
per Munn & Co.
Attys.

J. W. Burch.

Cutter Cultivator.

No. 97,870. Patented Dec. 14, 1869.





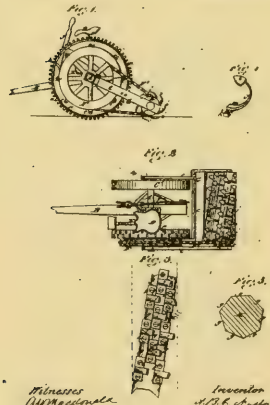
Witnesses
Wm. Lander
A. F. Clark

Inventor.
J. W. Burch
Munn & Co.

A. B. C. Nisbaum,

Rotary Cultivator.

No. 100,183. Patented Feb. 22, 1870.



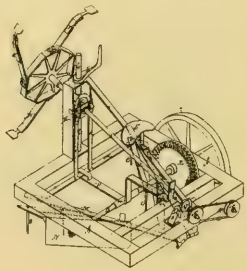
Witnesses
W. Macdonald
Geo. J. Maclean

Inventor
A. B. C. Nisbaum
per A. H. Kinsley
Atty.

N. J. Andrews.

Rotary Cultivator.

No. 104,077. Patented Nov. 22, 1870.



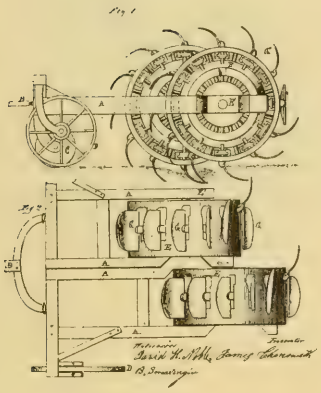
Witnesses
John A. Ellis
Henry A. Porter

Inventor
Wm. J. Andrews
by
J. H. Kinsley
Atty.

J. Chenoweth, 2 Sheets. Sheet 1.

Rotary Cultivator.

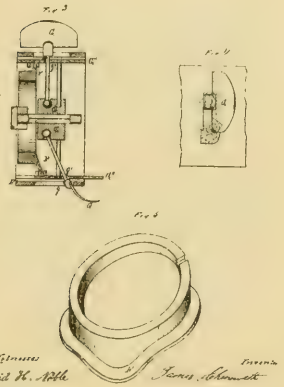
No. 107,710. Patented Sept. 13, 1870.



J. Chenoweth, 2 Sheets. Sheet 2.

Rotary Cultivator.

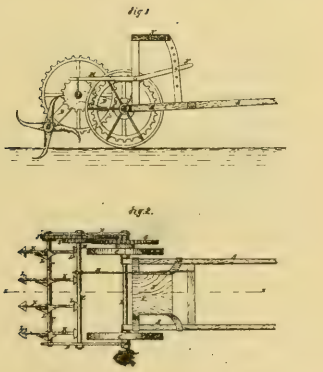
No. 107,710. Patented Sept. 13, 1870.



G. S. Newport,

Cultivator.

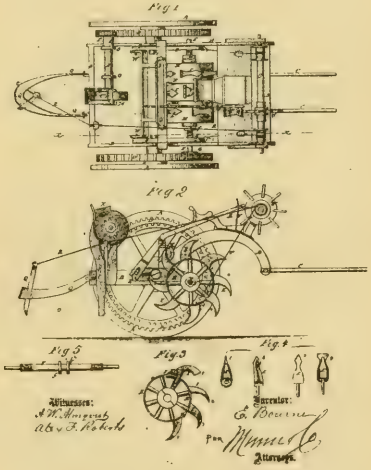
No. 106,185. Patented Aug. 9, 1870.



E. Bourne,

Rotary Cultivator.

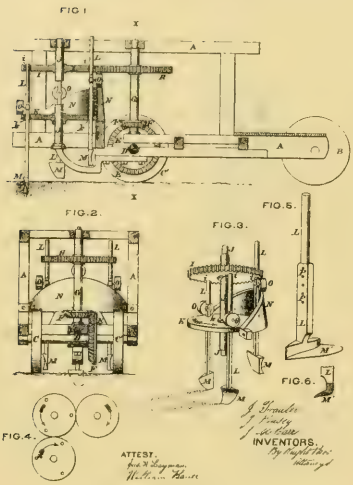
No. 107,818. Patented Sept. 13, 1870.



Inventor: Henry V. Carr.

Cultivator.

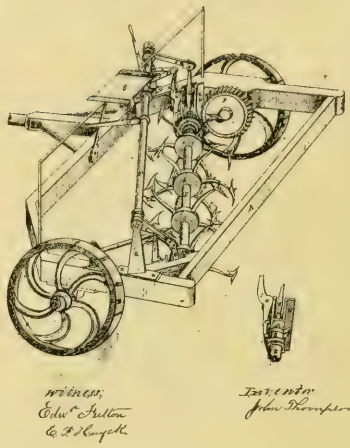
No. 107,639. Patented, Sept. 20, 1870.



J. Thompson,

Rotary Cultivator.

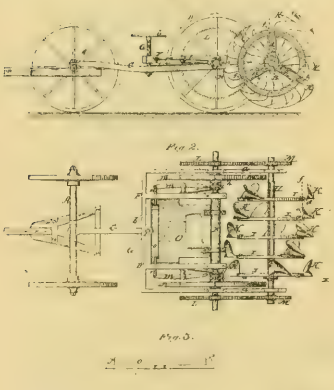
No. 109,913. Patented Nov. 15, 1870.



N. F. Dodd,

Plow-Share Adding Field.

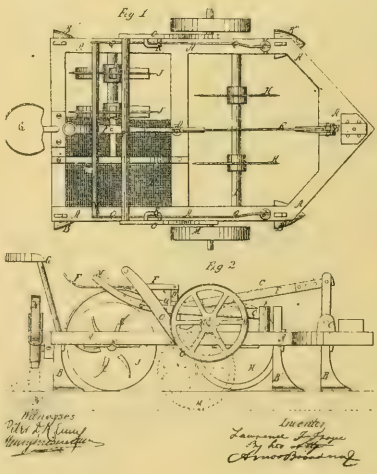
No. 109,711. Patented Nov. 29, 1870.



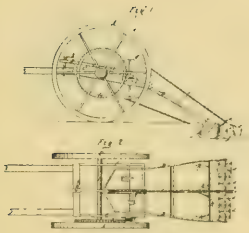
L. F. Frantz.

Plow.

No. 112,913. Patented Mar. 21, 1871.



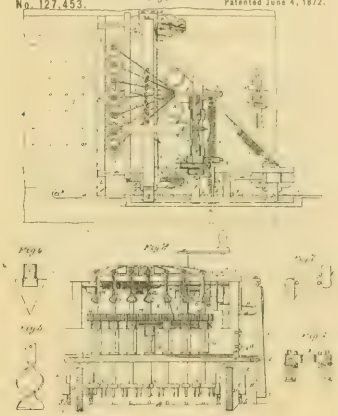
J. T. Morris,
Rotary Plow
No. 119,190. Patented Nov. 28, 1871.



Witnesses:
Geo. W. Smith
Thos. D. Odend

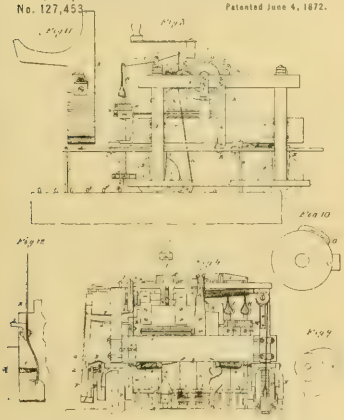
Inventor:
J. T. Morris
per
Munn & Co
Attorneys.

HENRY W. BOWEN. 2 Sheets—Sheet 1.
Improvement in Automatic-Cultivators.
No. 127,453. Patented June 4, 1872.



Witnesses
Henry W. Bowen
Attorney

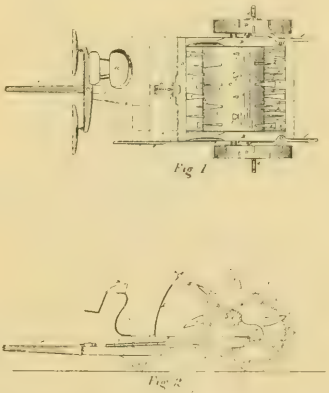
HENRY W. BOWEN. 2 Sheets—Sheet 2.
Improvement in Automatic-Cultivators.
No. 127,453. Patented June 4, 1872.



Witnesses
J. N. Pepper
L. S. Miller

Henry W. Bowen
by his attorney
R. H. Duncan

M. DECELLE.
Improvement in Rotary-Cultivator.
No. 127,746. Patented June 11, 1872.



Witness
James A. Walker
Frank R. Elliott

Inventor
Maxime Decelle
By Geo. H. Fitzsimmons Atty.

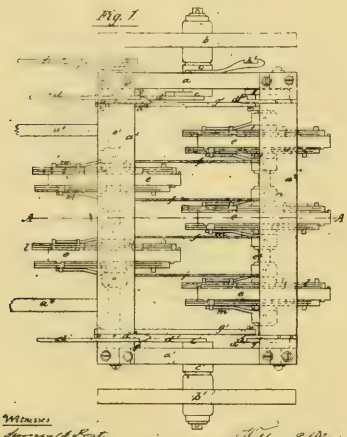
2 Sheets--Sheet 1.

W. E. BLEECKER.

Improvement in Rotary-Plows.

No. 129,206. Patented July 16, 1872.

Fig. 1



Witnesses

James B. Root

James S. Mackenzie

Scale 1 in. - 1 ft.

William E. Bleecker

Inventor.

2 Sheets--Sheet 2.

W. E. BLEECKER.

Improvement in Rotary-Plows.

No. 129,206. Patented July 16, 1872.

Fig. 2

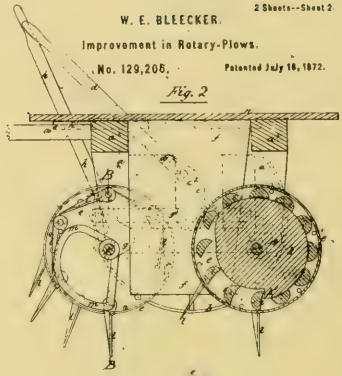
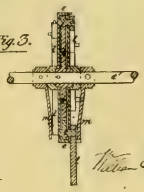


Fig. 3.



Witnesses

James B. Root

James S. Mackenzie

William E. Bleecker

Inventor

3 Sheets--Sheet 1.

G. A. FORSGARD.

Improvement in Cultivators.

No. 131,160. Patented Sep. 10, 1872.

Fig. 2

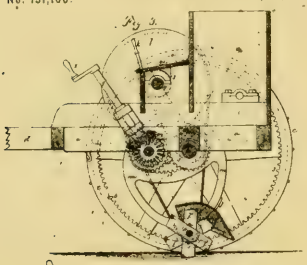
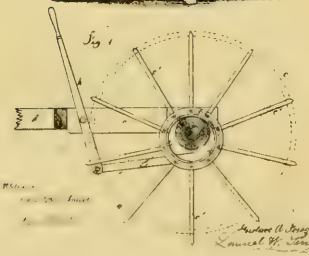


Fig. 1



Witnesses

Gustave A. Forsgard

Samuel W. Terrell

3 Sheets--Sheet 2.

G. A. FORSGARD.

Improvement in Cultivators.

No. 131,160. Patented Sep. 10, 1872.

Fig. 4

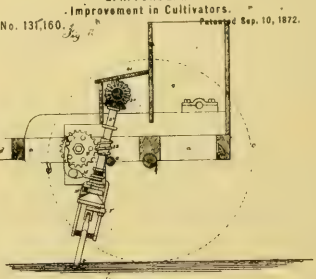
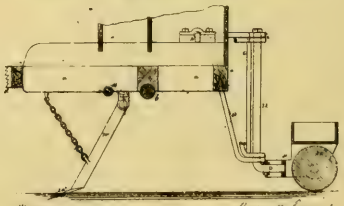


Fig. 5



Witnesses

Gustave A. Forsgard

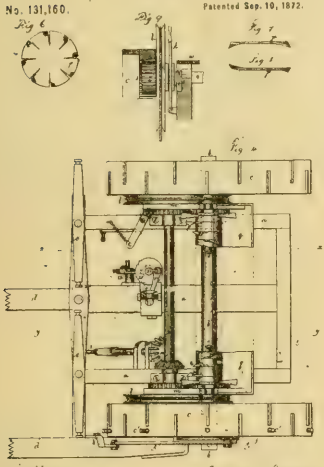
Samuel W. Terrell

3 Sheets - Sheet 3.

G. A. FORSGARD.

Improvement in Cultivators.

No. 131,160. Patented Sep. 10, 1872.



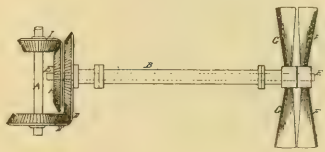
Witnesses: Chas. K. Gould, Geo. H. Mason

Inventor: Gustave A. Forsgard, Samuel W. Fassett, Atty.

W. B. HYDE

Rotary Sod-Cutter

No. 131,461 Patented Sep. 17,



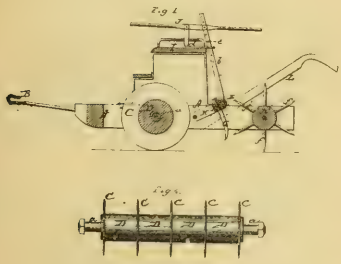
Witnesses: A. T. Dewey, F. L. Stone

Inventor: William B. Hyde, by Dewey & Co., Attorneys

J. B. McCLEAN & C. A. MAYES.

Combined Crushers, Cultivators, and Harrows.

No. 134,388. Patented Dec. 31, 1872.



Witnesses: Geo. H. Allen, Wm. F. Allen

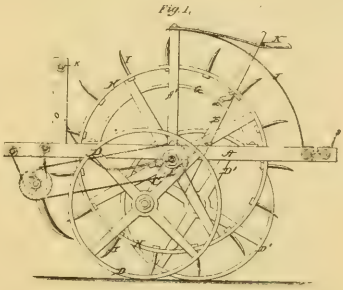
Inventors: James B. McClean & Charles A. Mayes, by J. H. Alexander & Co., Attys.

2 Sheets--Sheet 1.

J. W. MILROY.

Rotary Cultivators.

No. 135,002. Patented Jan. 21, 1873.



Witnesses: Geo. H. Allen, Wm. F. Allen

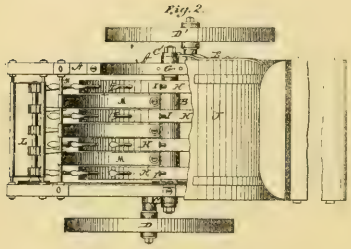
Inventor: John W. Milroy, by J. H. Alexander & Co., Atty.

2 Sheets--Sheet 2

J. W. MILROY.

Rotary Cultivators.

No. 135,002. Patented Jan. 21, 1873



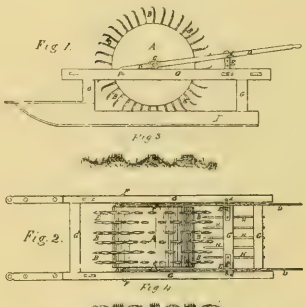
Witnesses
Chas. A. Ellis
Jno. F. Ellis

James J. Milroy
by
T. H. Allerdice & Co.
Attys

A. TROUARD

Sugar-Cane Cultivators.

No. 135,174. Patented Jan. 21, 1873.



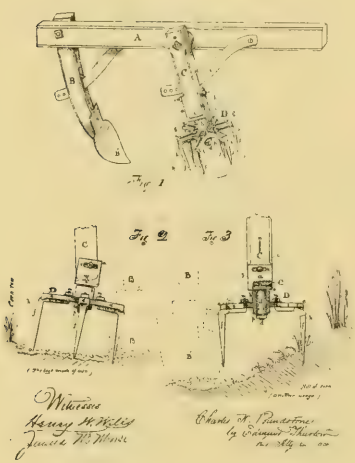
Witnesses.
E. B. Ellis
Walter Sanderson

Inventor.
Alcide Trouard
By Geo. A. Atherton
Attorney

C. N. POUNDSTONE.

Rotary Cultivators.

No 135,664 Patented Feb. 11, 1873



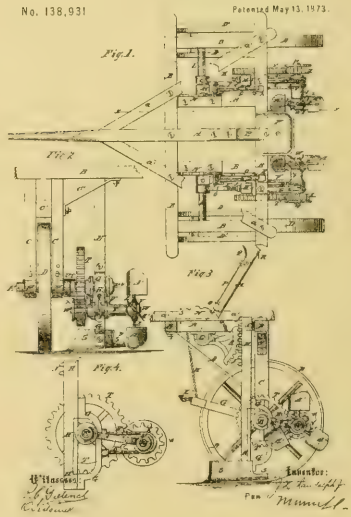
Witness
Henry H. Wells
Jacob W. Monk

Charles N. Poundstone
by Edmund Thurston
his Atty in fact

J. H. RANDOLPH, Jr

Wheel Cultivators.

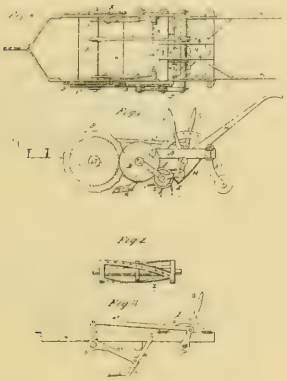
No. 138,931 Patented May 13, 1873.



Witnesses:
J. G. Glenck
R. Ellis

Inventor:
J. H. Randolph Jr
Per W. Munn & Co

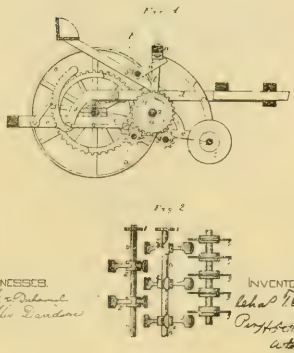
R. McKINLEY.
Rotary Cultivators.
No. 139,013 Patented May 20, 1873.



Witnesses
Charles W. Newman
Hayden M. Le Roy

Inventor
Robert McKinley
by Charles Mason
his attorney

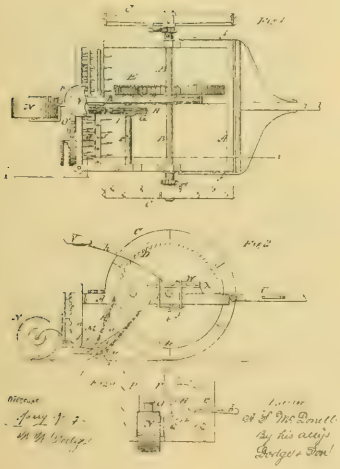
C. T. ELLISTON.
Rotary Plows.
No. 142,094. Patented August 26, 1873.



WITNESSES
H. F. Dubenell
Alex Dundas

INVENTOR
Chas T. Elliston
Pratt & Afflet
Attorneys

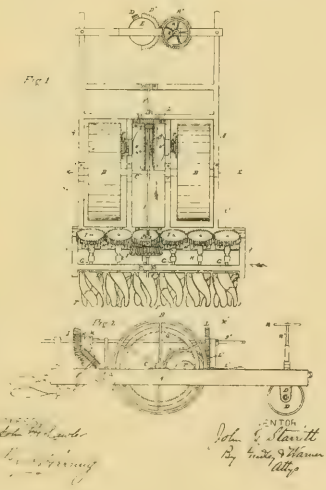
A. S. McDONELL.
Cultivators.
No. 144,346. Patented Nov. 4, 1873.



Witnesses
Jerry L. Fox
W. M. Dodge

Inventor
A. S. McDonell
by his atty
Dodge & Son

2 Sheets--Sheet 1.
J. D. STARRITT.
Rotary-Cultivators.
No. 144,419. Patented Nov. 11, 1873.

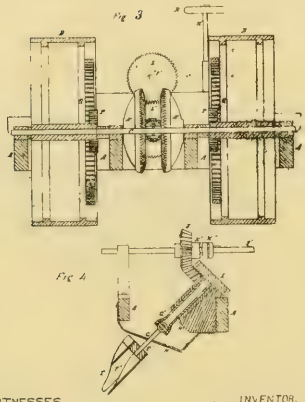


INVENTOR
John D. Starritt
By Curtis & Warner
Attys

2 Sheets--Sheet 2.

J. D. STARRITT.
Rotary-Cultivators.

No 144,419. Patented Nov. 11, 1873.

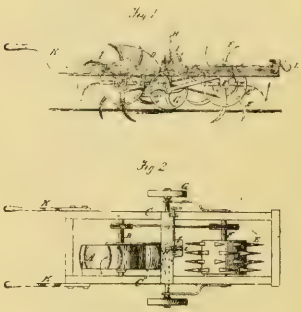


WITNESSES.
John H. Lowler
Geo. C. Hervey

INVENTOR.
John D. Starritt
by his Atty Thomas
Atty

A. E. HOFFMEYER & J. SCHMIDT.
Rotary-Plows

No 145,172 Patented Dec. 2, 1873.

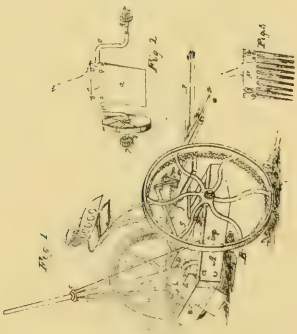


Witnesses.
H. Sibford.
Ot. Bradford.

Inventors,
A. E. Hoffmeyer
J. Schmidt
by
Atty

R. JONES.
Seeding-Machines.

No 145,737 Patented Dec. 23, 1873.

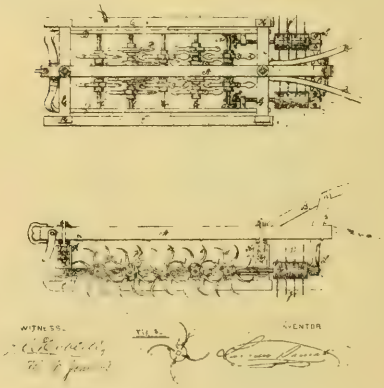


WITNESSES
Edwin Jones Jr.
Geo. C. Hervey

INVENTOR.
Robert Jones

L. SONIAT.
Cane-Cultivators.

No. 147,992. Patented Feb. 24, 1874.



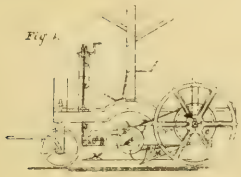
WITNESSES.

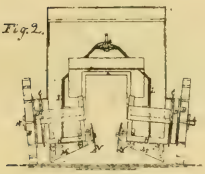
INVENTOR

2 Sheets--Sheet 1.

E. M. HESSELBOM.
Cotton-Cultivators.

No. 148,060. Patented March 3, 1874.





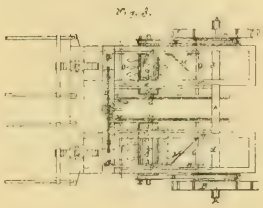
Witnesses.
Sydney Brooks.
Fr. Schmidt.

Inventor.
Dietrich Hesselbom
per F. Schmidt
Atty

2 Sheets--Sheet 2

E. M. HESSELBOM.
Cotton-Cultivators.

No. 148,060. Patented March 3, 1874

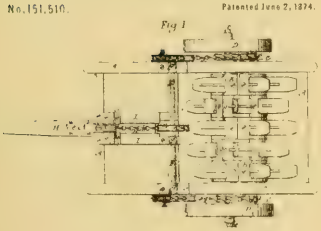


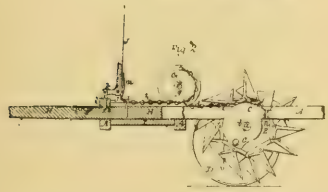
Witnesses.
Sydney Brooks.
Fr. Schmidt.

Inventor.
Dietrich Hesselbom
per Z. H. Mersick.
Atty.

J. H. PITKIN.
Rotary Plows

No. 151,510. Patented June 2, 1874.



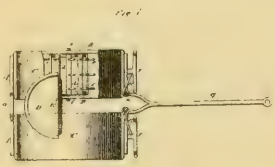


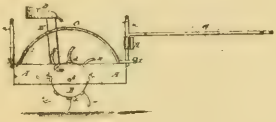
Witnesses
[illegible]
[illegible]

Inventor
[illegible]
[illegible] Pitkin, [illegible]

J. C. ELLIOTT.
Cultivators.

No. 152,834. Patented July 7, 1874.

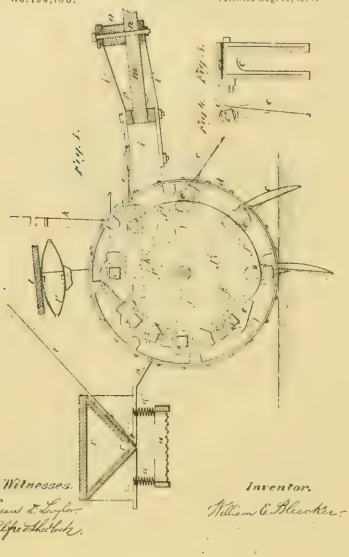




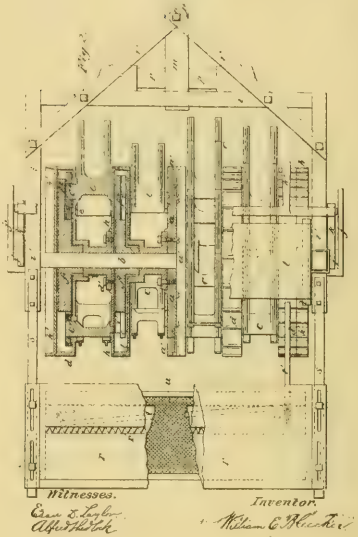
Witnesses
[illegible]
[illegible]

Inventor
J. C. Elliott
[illegible]
Attorneys

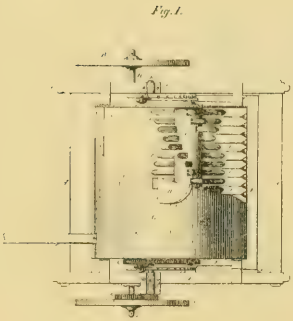
W. E. BLEECKER. 2 Sheets--Sheet 1.
Rotary Plows.
No. 154,168. Patented Aug. 18, 1874.



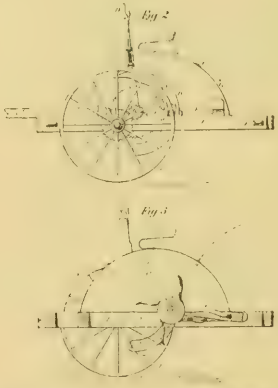
W. E. BLEECKER. 2 Sheets--Sheet 2.
Rotary Plows.
No. 154,168. Patented Aug. 18, 1874.



H. JONES & W. K. YARD. 2 Sheets--Sheet 1.
Rotary-Plows.
No. 154,489. Patented Aug. 25, 1874.



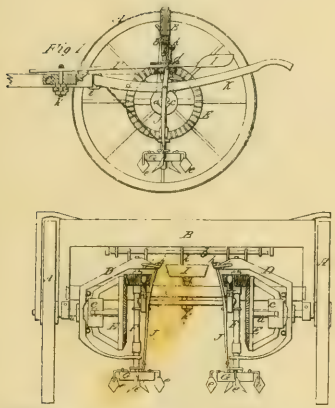
H. JONES & W. K. YARD. 2 Sheets--Sheet 2.
Rotary-Plows.
No. 154,489. Patented Aug. 25, 1874.



2 Sheets--Sheet 1.

A. F. BATCHELLER.
Corn-Plows.

No. 156,268. Patented Oct. 27, 1874.



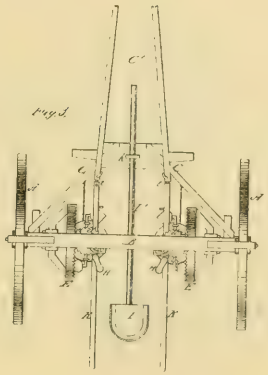
WITNESSES
E. H. Bates
Robert Ewett

INVENTOR
Alexander F. Batcheller
Chipman & Farrow
Attorneys

2 Sheets--Sheet 2.

A. F. BATCHELLER.
Corn-Plows.

No. 156,268. Patented Oct. 27, 1874

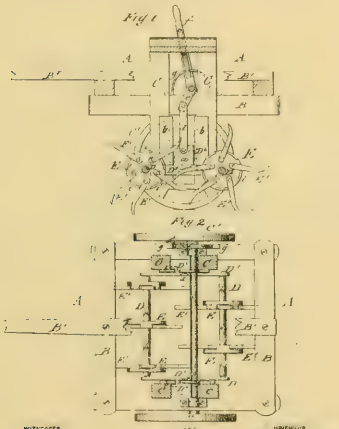


WITNESSES
Robert Ewett
E. H. Bates

INVENTOR
Alexander F. Batcheller
Chipman & Farrow
Attorneys

H. VON PHUL, Jr. & J. MALLON.
Sugar-Cane Stubble-Diggers and Cultivators.

No 157,893. Patented Dec. 15, 1874

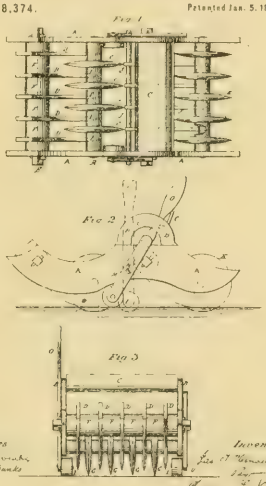


WITNESSES:
[illegible]

INVENTOR:
H. Von Phul Jr
J. Mallon
BY
[illegible]
ATTORNEYS.

J. T. HENDERSON
Combined Revolving and Drag Harrows

No. 158,374. Patented Jan. 5. 1875.



Witnesses
[illegible]
Thos. G. Banks

Inventor
Jas. T. Henderson
[illegible]
Atty.

2 Sheets--Sheet 1

W. H. FOYE.
Rotary-Plows.

No. 158,482 Patented Jan. 5, 1875.

Fig. 1.

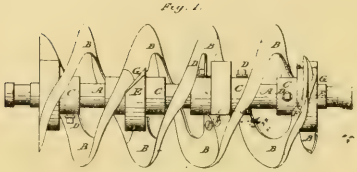
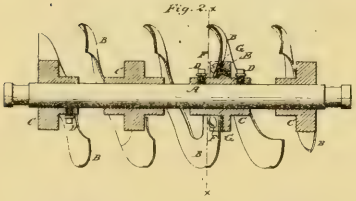


Fig. 2.



Witnesses.
C. J. Gasser
A. Schmidt

Inventor.
William H. Foye
By Hill & Allsworth
His Attorneys

2 Sheets--Sheet 2.

W. H. FOYE.
Rotary-Plows.

No. 158,482. Patented Jan. 5, 1875

Fig. 3.

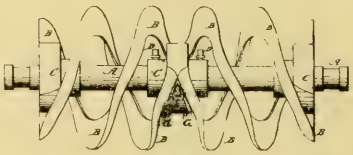


Fig. 4.

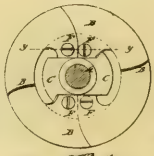


Fig. 7.

Fig. 6.

Fig. 5.

Witnesses.
C. J. Gasser
A. Schmidt

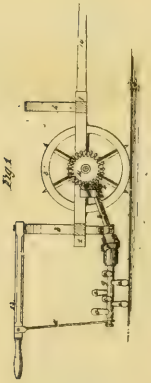
Inventor.
Wm. H. Foye
By Hill & Allsworth
His Attorneys

2 Sheets--Sheet 1.

N. S. WOOD.
Revolving Cultivators.

No. 158,663. Patented Jan. 12, 1875.

Fig. 1



Witnesses
Thomas R. Clark
Joseph W. Johnston

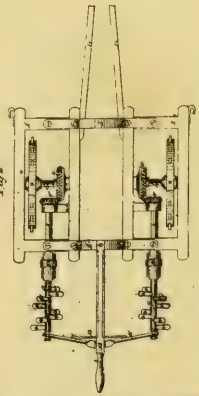
Inventor
Nathaniel S. Wood

2 Sheet --Sheet 2.

N. S. WOOD.
Revolving-Cultivators.

No. 158,663. Patented Jan. 12, 1875.

Fig. 2

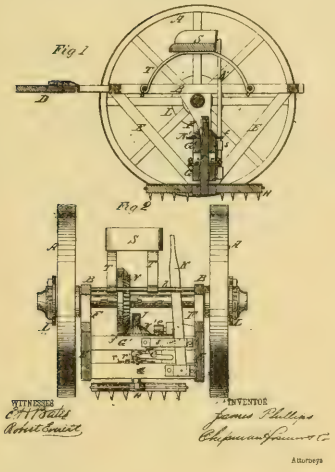


Witnesses
Thomas R. Clark
Joseph W. Johnston

Inventor.
Nathaniel S. Wood

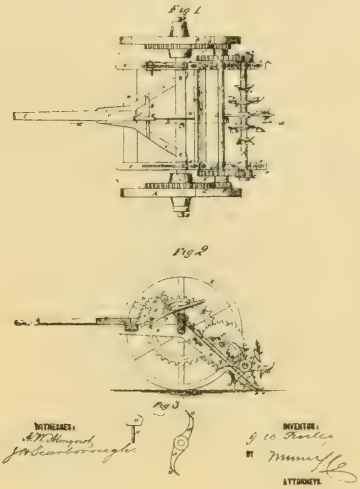
J. PHILLIPS.
Revolving-Harrow.

No. 161,057 Patented March 23, 1875



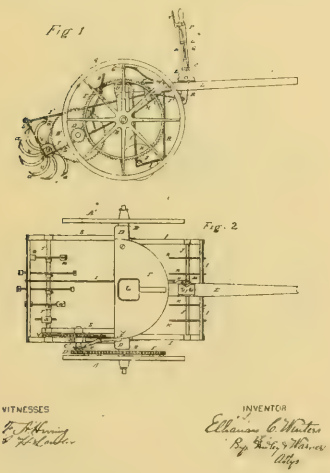
G. W. FENLEY
Rotary Cultivator and Chopper

No 163,061 Patented May 11, 1875



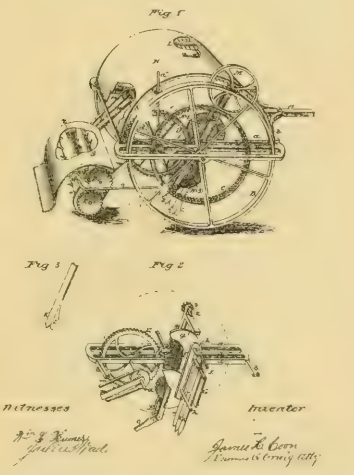
E. C. WINTERS.
Revolving Cultivator.

No 163,346. Patented May 18, 1875.



J. W. COON.
Rotary Cultivator.

No 164,428. Patented June 15, 1875.

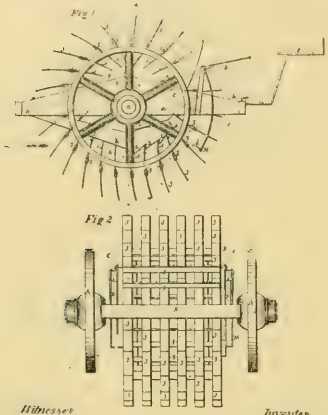


2 Sheets--Sheet 1

W. C. B. RICHARDSON.

Rotary-Spaders.

No. 166,721 Patented Aug. 17, 1875.



Witnesses
J. H. Connell,
W. Hage

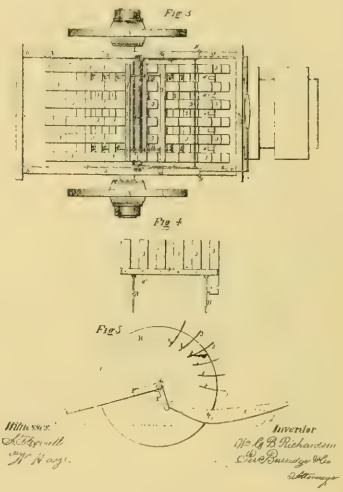
Inventor
Wm. C. B. Richardson
By Burridge & Co
Attorneys

2 Sheets--Sheet 2.

W. C. B. RICHARDSON

Rotary-Spaders.

No. 166,721. Patented Aug. 17, 1875.



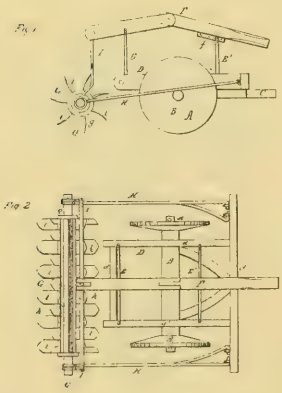
Witnesses
J. H. Connell
W. Hage

Inventor
Wm. C. B. Richardson
By Burridge & Co
Attorneys

D. W. BRODNAX, Sr.

ROTARY SPADE-CULTIVATOR.

No. 170,661. Patented Dec. 7, 1875.



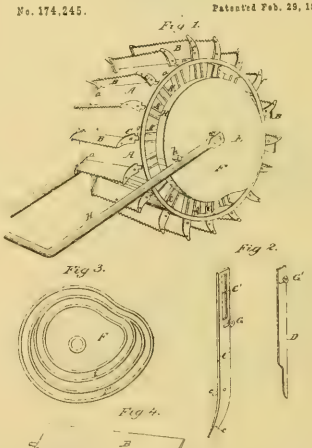
WITNESSES
J. J. Hohmann
Wm. H. Dieckmann

INVENTOR
David W. Brodnax Sr.
By Lyon & Lyon Attorneys

G. E. HOPKINS.

ROTARY CULTIVATOR.

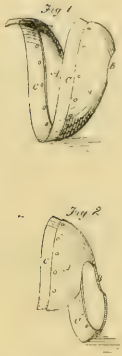
No. 174,245. Patented Feb. 29, 1876.



Witnesses.
J. N. Reed
J. L. Cook

Inventor.
Geo. E. Hopkins

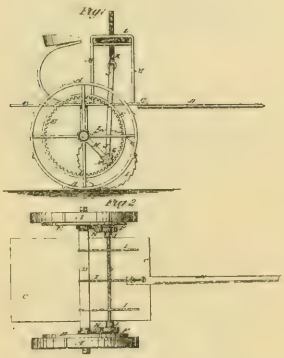
W. H. FOYE.
ROTARY-PLOW.
No. 174,796. Patented March 14, 1876



Witnesses
R. Lewis
A. Simmons

Inventor
Wm. H. Foye
By Neal & Hollenworth
His Attys

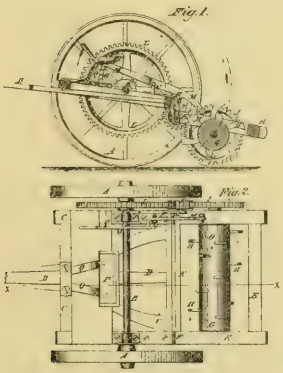
J. C. STONE.
ROTARY-CULTIVATOR
No. 176,897. Patented May 2, 1876



WITNESSES:
Thomas McCuddy
John Gretals

INVENTOR:
J. C. Stone
BY Munn & Co
ATTORNEYS.

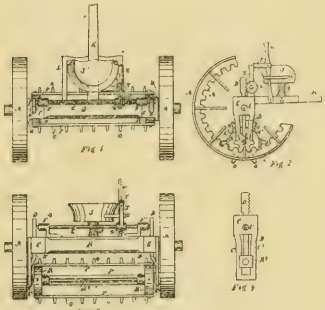
T. A. KERSHNER.
REVOLVING HARROW AND PULVERIZER.
No. 179,320. Patented June 27, 1876.



WITNESSES:
Jackson Dalland
John Gretals

INVENTOR:
T. A. Kershner
BY Munn & Co
ATTORNEYS.

T. ROUSE.
ROTARY HARROWS.
No. 179,427. Patented July 4, 1876



WITNESSES
R. S. Lane
Byron Gordon

INVENTOR
Thomas Rouse
Chas. E. Mott
Atty

Sheets—Sheet 1.

J. HAYNES.

CULTIVATOR, PLOW, AND HARROW.

No. 179,918. Patented July 18, 1876.

Fig 1

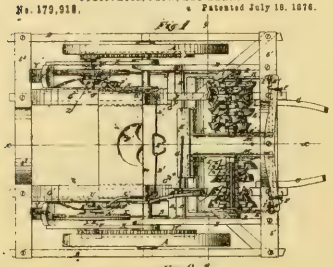
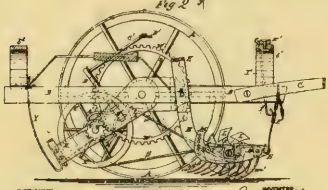


Fig 2



WITNESSES:
H. H. Howard
John Goethals

INVENTOR:
J. Haynes
BY
Munn & Co.
ATTORNEYS.

3 Sheets—Sheet 2.

J. HAYNES.

CULTIVATOR, PLOW, AND HARROW.

No. 179,918. Patented July 18, 1876.

Fig 3

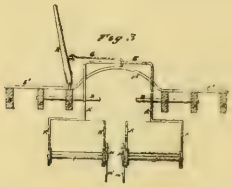


Fig 4

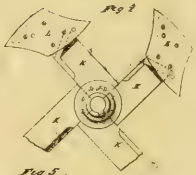
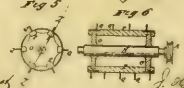


Fig 5 Fig 6



WITNESSES:
H. H. Howard
John Goethals

INVENTOR:
J. Haynes
BY
Munn & Co.
ATTORNEYS.

D. B. SHERMAN.

REVOLVING GARDEN AND FIELD HOE.

No. 181,870. Patented Sept. 5, 1876.

Fig 1

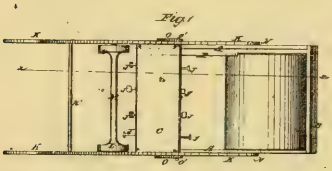
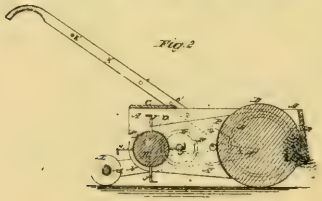


Fig 2



WITNESSES:
Thomas McCuds
John Goethals

INVENTOR:
D. B. Sherman
BY
Munn & Co.
ATTORNEYS.

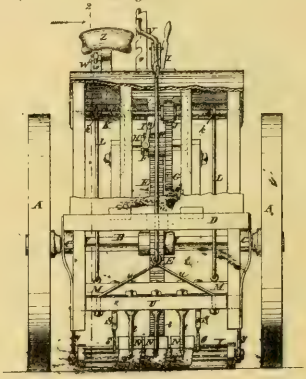
3 Sheets—Sheet 1.

W. McC. MATHES.

COMBINED SPADING, PLOWING AND STALK-CUTTING MACHINES.

No. 181,959. Patented Sept. 5, 1876.

Fig 1



WITNESSES:
Chas. [illegible]
H. H. Holt

W. McC. Mathes
[illegible]
[illegible]

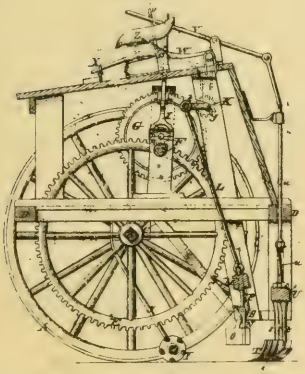
2 Sheets—Sheet 2.

W. McC. MATHES.

COMBINED SPADING, PLOWING AND STALK CUTTING MACHINES.

No. 181,959. Patented Sept. 5, 1876.

Fig. 2.



WITNESSES: Chas. Goach, A. H. Hall

INVENTOR: William McConnell Mathes, by Knight Bros. Attorneys.

P. D. & H. C. PELSOR.

ROTARY-SPADER STALK-CUTTERS AND FIELD-ROLLERS.

No. 181,976. Patented Sept. 5, 1876.

fig. 1.

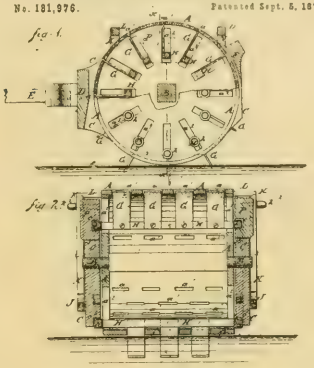


fig. 2.

fig. 3.

WITNESSES: Geo. Neff, J. Ira Greenleaf

INVENTORS: P. D. Pelsor and H. C. Pelsor, by Munn & Co.

ATTORNEYS.

2 Sheets—Sheet 1.

W. T. NICHOLS.

ROTARY HARROWS.

No. 187,769. Patented Feb. 27, 1877.

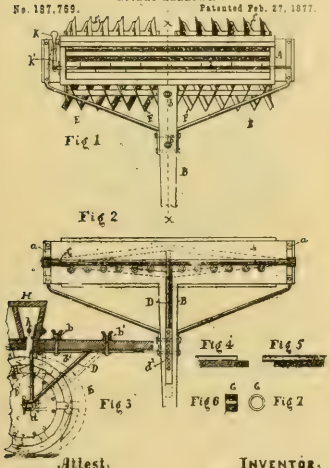


Fig 1

Fig 2

Fig 3

Fig 4

Fig 5

Fig 6

Fig 7

Attest: H. C. Corlies, E. S. Floyd.

INVENTOR: William T. Nichols, Per. Osborn & Fisher, Attys.

2 Sheets—Sheet 2.

W. T. NICHOLS.

ROTARY HARROWS.

No. 187,769. Patented Feb. 27, 1877.

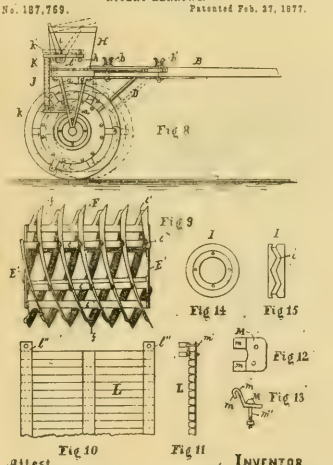


Fig 8

Fig 9

Fig 10

Fig 11

Fig 12

Fig 13

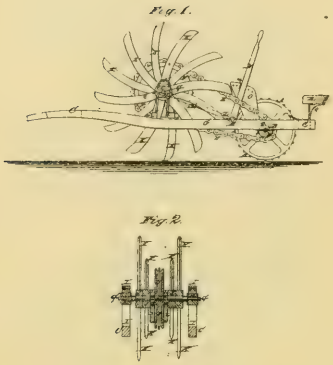
Fig 14

Fig 15

Attest: H. C. Corlies, E. S. Floyd.

INVENTOR: William T. Nichols, Per. Osborn & Fisher, Attys.

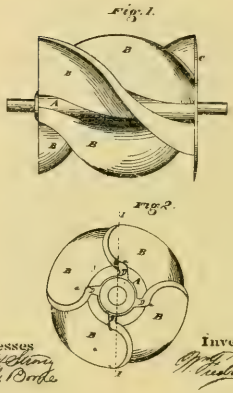
J. R. TILLEY.
CULTIVATOR.
No. 190,796. Patented May 15, 1877.



WITNESSES:
C. Wyngaert
W. Heilbrough

INVENTOR:
John R. Tilley
BY
Munn & Co.
ATTORNEYS.

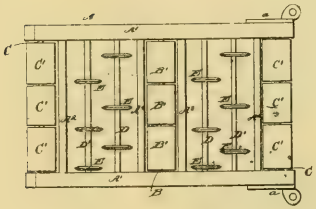
W. FREEBORN.
ROTARY PLOW.
No. 191,332. Patented May 29, 1877.



Witnesses
Geo. H. Strong
J. W. L. Brooke

Inventor
W. Freeborn

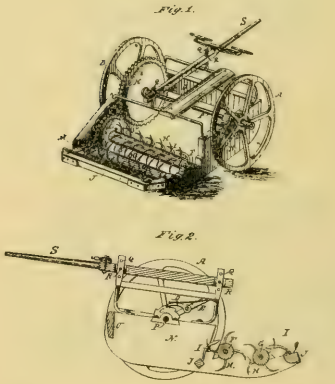
G. R. HUGHES & J. E. WALL.
HARROWS AND ROLLERS.
No. 194,436. Patented Aug. 21, 1877.



WITNESSES
Robert Jewett
George E. Greene

INVENTORS.
George E. Hughes
John E. Wall
BY
George & Greene
ATTORNEYS

J. ADAMS.
Soil-Pulverizer.
No. 196,617. Patented Oct. 30, 1877.



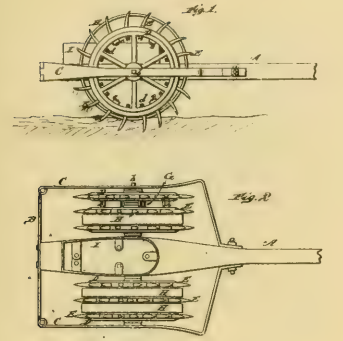
Witnesses:
Henry R. Linnard
John J. Turner.

Inventor.
his
Jessey Adams
mark

2 Sheets—Sheet 1.

H. SKILLINGS.
Revolving Plow.

No. 198,163. Patented Dec. 11, 1877.



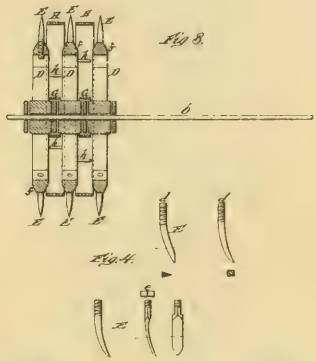
WITNESSES
Robt Ewatt
George E. Osborn

INVENTOR.
Hiram Skillings.
Munn & Co
ATTORNEYS

2 Sheets—Sheet 2.

H. SKILLINGS.
Revolving Plow.

No. 198,163. Patented Dec. 11, 1877.

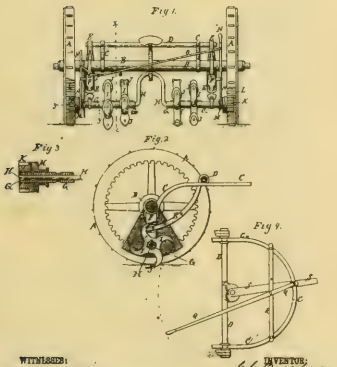


WITNESSES
Robt Ewatt
George E. Osborn

INVENTOR
Hiram Skillings
Munn & Co
ATTORNEYS

C. C. BREEDEN & O. T. WHEELER.
Rotary Cultivator.

No. 198,539. Patented Dec. 18, 1877.

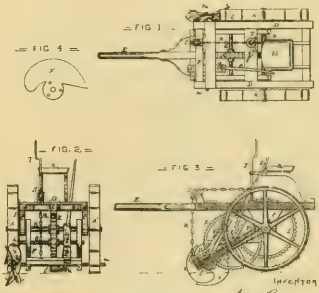


WITNESSES:
George N. Mellen
J. H. Scarborough.

INVENTOR:
C. C. Breeden
O. T. Wheeler
Munn & Co
ATTORNEYS.

J. GRANER.
Revolving Cultivator.

No. 198,540. Patented Dec. 25, 1877.

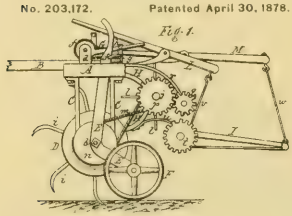


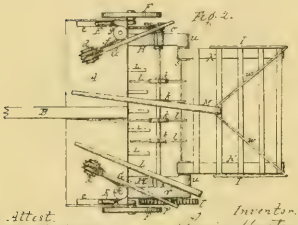
Witnesses
Alfred W. G. Ellston
D. N. Miller

Inventor
John Graner
By H. W. Jenkins
Attorney

2 Sheets—Sheet 1

L. MARTIN.
Machine for Exterminating Noxious Grasses.
No. 203,172. Patented April 30, 1878.



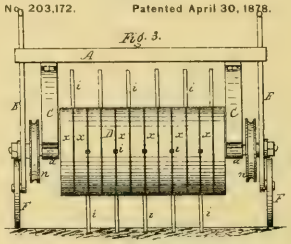


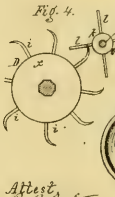
Attest.
R. G. White
Edwin Scott

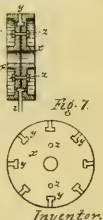
Inventor.
Louis Martin
per R. H. Osgood
Atty.

2 Sheets—Sheet 2

L. MARTIN.
Machine for Exterminating Noxious Grasses.
No. 203,172. Patented April 30, 1878.



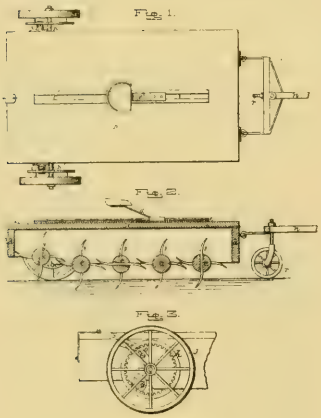




Attest.
R. G. White
Edwin Scott

Inventor.
Louis Martin
per R. H. Osgood
Atty.

D. LOCKE.
Clod-Crusher.
No. 205,969. Patented July 16, 1878.

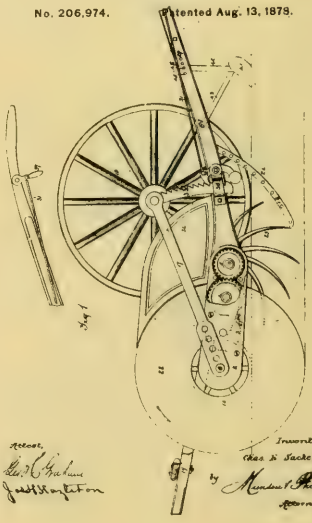


Witnesses.
J. W. Garner
W. L. W. Grant

Inventor.
Daniel Locke
per D. Lehmann
Atty.

3 Sheets—Sheet 1

C. E. SACKETT.
Cultivators.
No. 206,974. Patented Aug. 13, 1878.



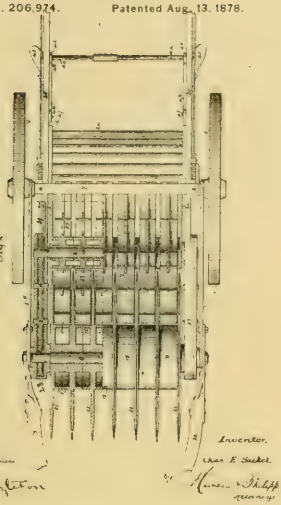
Witnesses.
Geo. H. Graham
Jos. H. Houghton

Inventor.
Chas. E. Sackett
by Munn & Co.
Attorneys

3 Sheets—Sheet 2

C. E. SACKETT.
Cultivators.

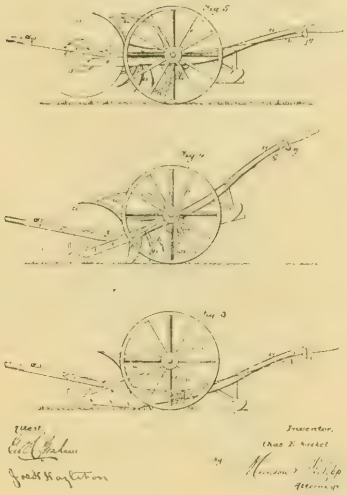
No. 206,974. Patented Aug. 13, 1878.



3 Sheets—Sheet 3

C. E. SACKETT
Cultivators.

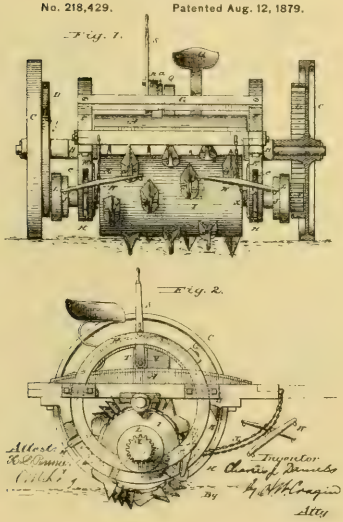
No. 206,974. Patented Aug. 13, 1878.



2 Sheets—Sheet 1

C. J. DANIELS.
Combination Harrow and Plow

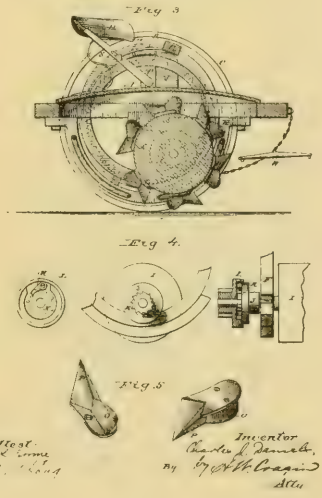
No. 218,429. Patented Aug. 12, 1879.

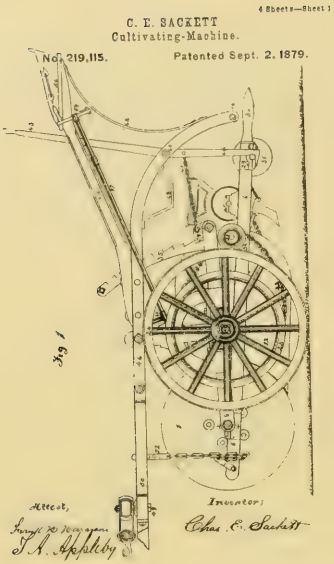


2 Sheets—Sheet 2

C. J. DANIELS.
Combination Harrow and Plow.

No. 218,429. Patented Aug. 12, 1879.

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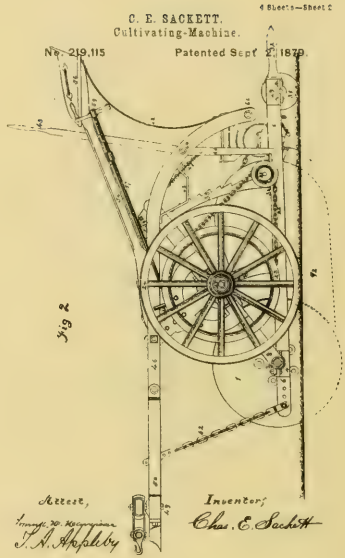
C. E. SACKETT.
Cultivating-Machine.
No. 219,115.
Patented Sept. 2, 1879.
Fig 1
Attest,
Inventor;
Chas. E. Sackett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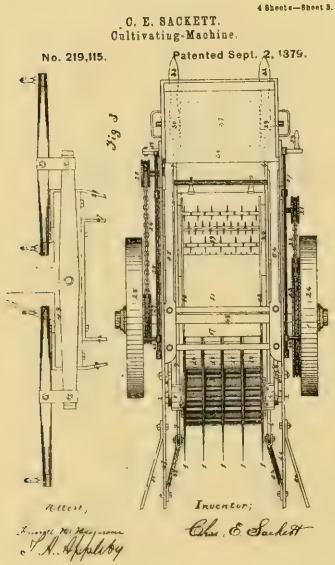
C. E. SACKETT.
Cultivating-Machine.
No. 219,115.
Patented Sept. 2, 1879.
Fig 2
Attest,
Inventor;
Chas. E. Sackett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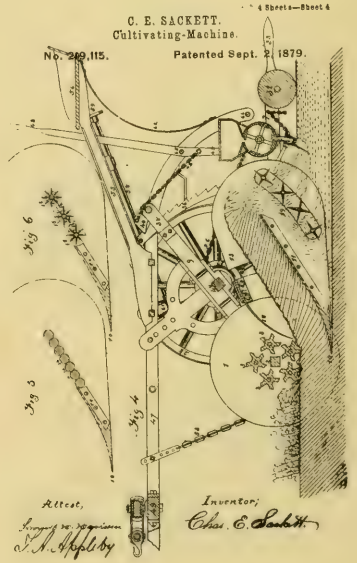
C. E. SACKETT.
Cultivating-Machine.
No. 219,115.
Patented Sept. 2, 1879.
Fig 3
Attest,
Inventor;
Chas. E. Sackett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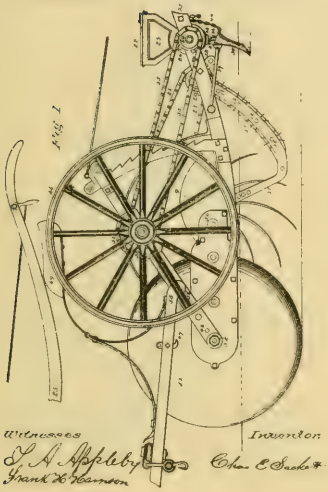
C. E. SACKETT.
Cultivating-Machine.
No. 219,115.
Patented Sept. 2, 1879.
Fig 6
Fig 5
Fig 4
Attest,
Inventor;
Chas. E. Sackett

3 Sheets—Sheet 1

C. E. SACKETT.
Cultivator.

No. 219,116. Patented Sept. 2, 1879.



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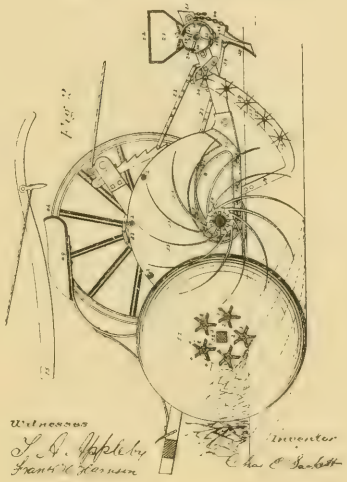
C. E. SACKETT.
Cultivator.

No. 219,116. Patented Sept. 2, 1879.



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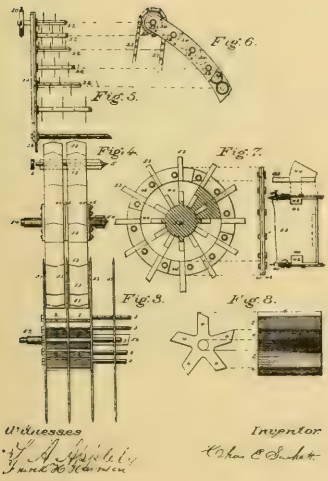
C. E. SACKETT.
Cultivator.

No. 219,116. Patented Sept. 2, 1879.



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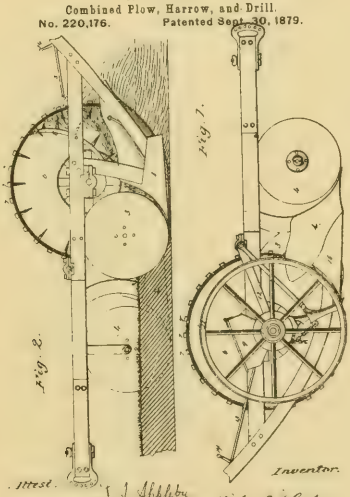
C. E. SACKETT.
Combined Plow, Harrow, and Drill.

No. 220,176. Patented Sept. 30, 1879.



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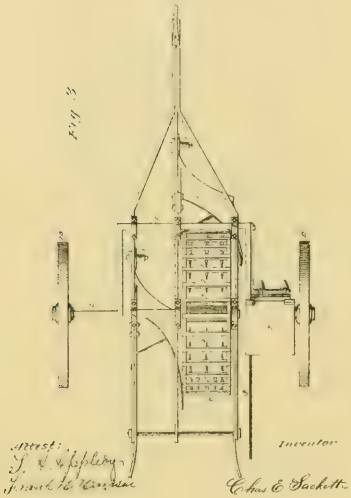
Combined Plow, Harrow, and Drill.
No. 220,176. Patented Sept. 30, 1879



3 Sheets—Sheet 3

C. E. SACKETT.
Combined Plow, Harrow, and Drill.
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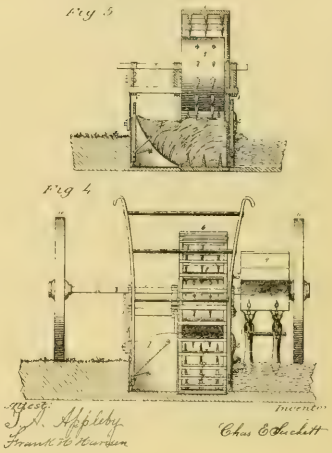

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C. E. SACKETT.
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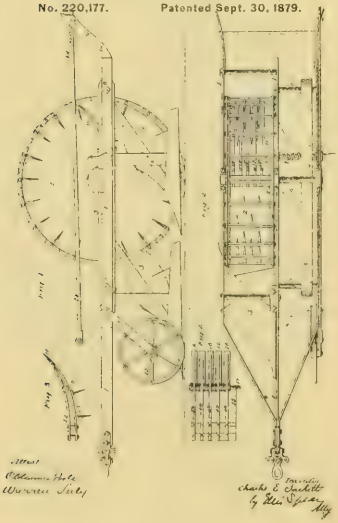
No. 220,177. Patented Sept. 30, 1879.



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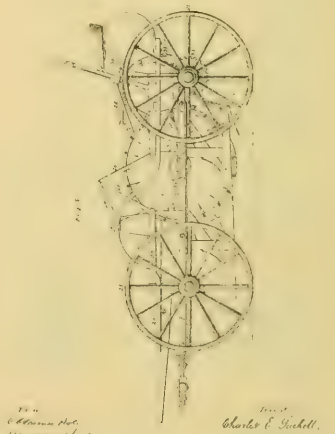
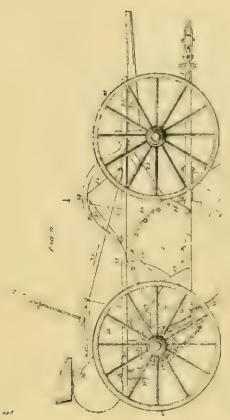
C. E. SACKETT.
Combined Plow, Harrow, and Seed-Drill.
No. 220,177. Patented Sept. 30, 1879.



4 Sheets—Sheet 4.

C. E. SACKETT
Combined Plow, Harrow, and Seed-Drill.

No. 220,177. Patented Sept. 30, 1879.



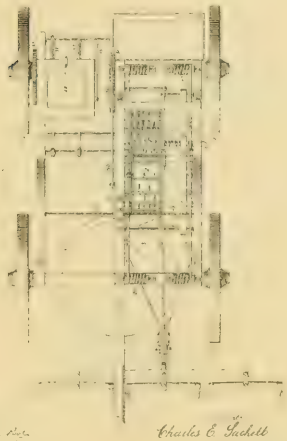
Witnesses
Ottomar Poty
Warren Selby

Inventor
Charles E. Sackett.
by Ellis Spear
Atty

4 Sheets—Sheet 4

C. E. SACKETT.
Combined Plow, Harrow, and Seed-Drill.

No. 220,177. Patented Sept. 30, 1879.



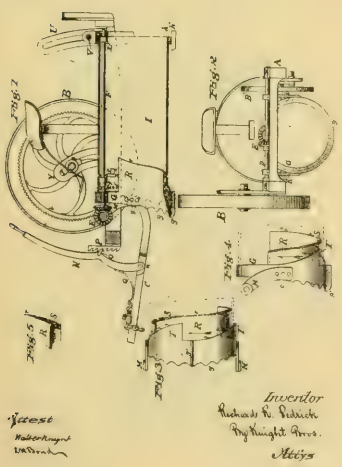
Witnesses
Ottomar Poty
Warren Selby

Inventor
Charles E. Sackett
by Ellis Spear
Atty

2 Sheets—Sheet 1

R. R. PEDRICK.
Plow.

No. 221,095. Patented Oct. 28, 1879.



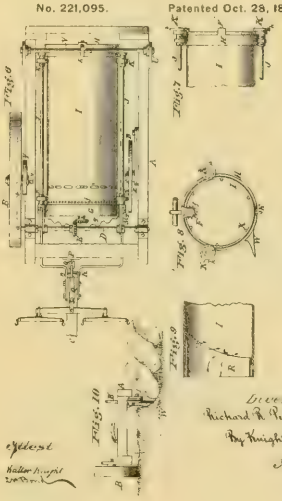
Witnesses
Walter Knight
W. A. Drew

Inventor
Richard R. Pedrick
By Knight Bros.
Attys

2 Sheets—Sheet 2

R. R. PEDRICK.
Plow.

No. 221,095. Patented Oct. 28, 1879.

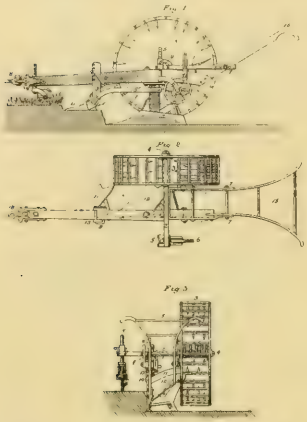


Witnesses
Walter Knight
W. A. Drew

Inventor
Richard R. Pedrick
By Knight Bros.
Attys

3 Sheets—Sheet 1

C. E. SACKETT.
Combined Plow and Pulverizing Harrow.
No. 222,603. Patented Dec. 16, 1879.

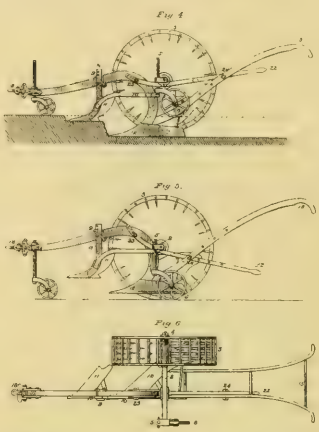


Witnesses: Lew Seely, R. F. Barnes

Inventor: Charles E. Sackett by Elis Spear Attorney

3 Sheets—Sheet 2

C. E. SACKETT.
Combined Plow and Pulverizing Harrow.
No. 222,603. Patented Dec. 16, 1879.

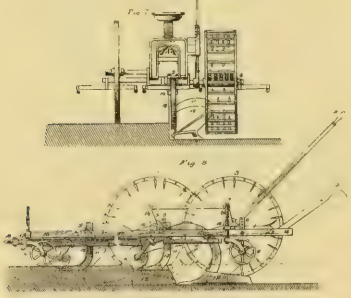


Witnesses: Lew Seely, R. F. Barnes

Inventor: Charles E. Sackett by Elis Spear Attorney

3 Sheets—Sheet 3.

C. E. SACKETT.
Combined Plow and Pulverizing Harrow.
No. 222,603. Patented Dec. 16, 1879.

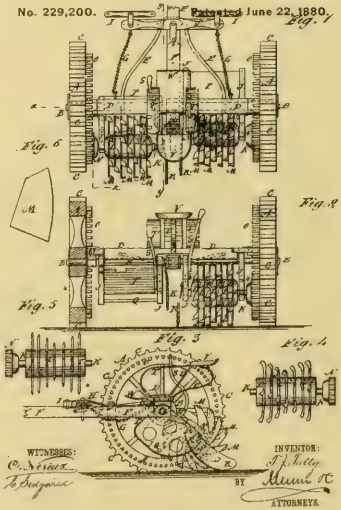


Witnesses: Lew Seely, R. F. Barnes

Inventor: Charles E. Sackett by Elis Spear Attorney

(No Model.)

T. J. TALLY.
Rotary Plow.
No. 229,200. Patented June 22, 1880.



WITNESSES: C. Deane, T. Sedgwick

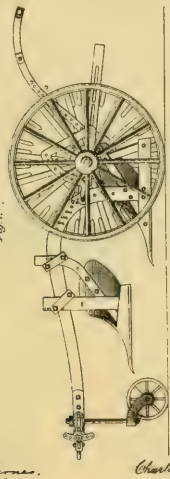
INVENTOR: T. J. Tally BY Munn & Co. ATTORNEYS.

(No Model.) 2 Sheets—Sheet 1.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses: R. P. Barnes, L. W. Seely

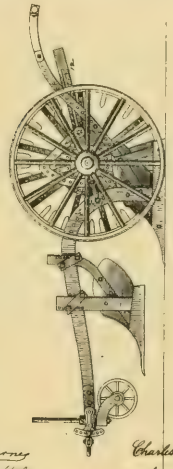
Inventor: Charles E. Sackett by Ellis Spear Attorney

(No Model.) 2 Sheets—Sheet 2.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses: R. P. Barnes, L. W. Seely

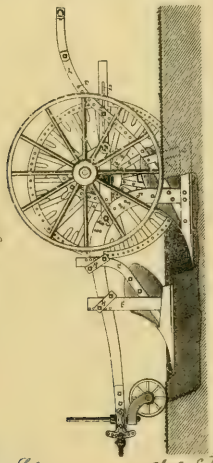
Inventor: Charles E. Sackett by Ellis Spear Attorney

(No Model.) 2 Sheets—Sheet 3.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses: L. W. Seely, R. P. Barnes

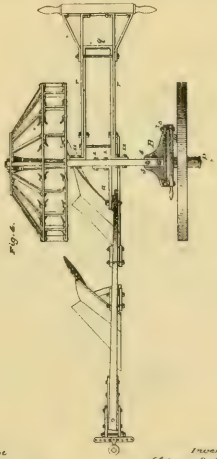
Inventor: Charles E. Sackett by Ellis Spear Attorney

(No Model.) 2 Sheets—Sheet 4.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses: R. P. Barnes, L. W. Seely

Inventor: Charles E. Sackett by Ellis Spear Attorney

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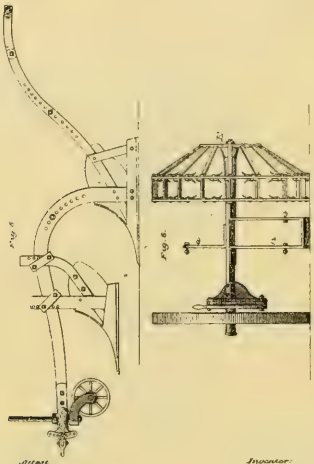
C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses
R. P. Barnes
L. Wharton Duffy

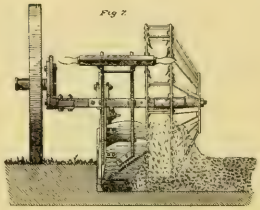
Inventor
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 8 Sheets—Sheet 6.

C. E. SACKETT

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses:
R. P. Barnes.
Wharton Duffy

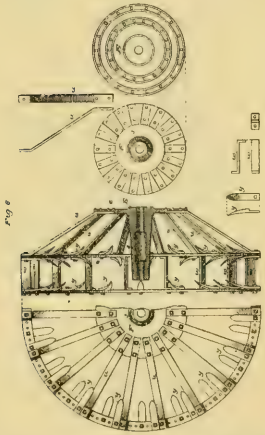
Inventor:
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 8 Sheets—Sheet 7.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



Witnesses
R. P. Barnes
Wharton Duffy

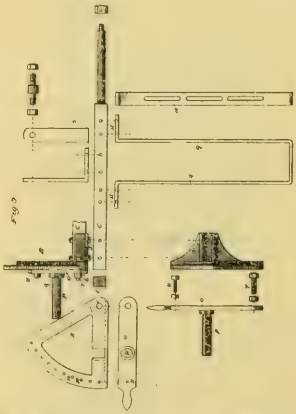
Inventor
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 8 Sheets—Sheet 8.

C. E. SACKETT.

Combined Plow and Pulverizing Apparatus.

No. 233,809. Patented Oct. 26, 1880.



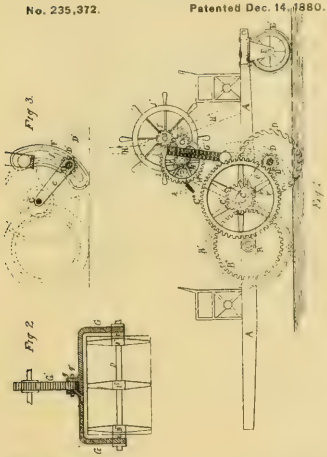
Witnesses
R. P. Barnes
Wharton Duffy

Inventor
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 2 Sheets—Sheet 1.

T. H. McCRAY.
Rotary Plow.

No. 235,372. Patented Dec. 14, 1880.



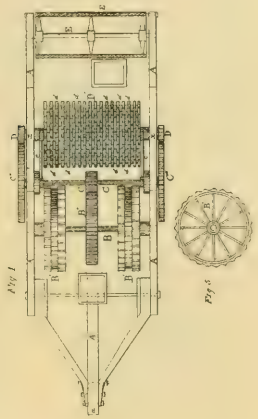
Witnesses:
Wm H. Steward
Isaac S. Gray

Inventor:
Thomas H. McCray.
per W. R. Houghton
Atty

(No Model.) 2 Sheets—Sheet 2

T. H. McCRAY.
Rotary Plow.

No. 235,372. Patented Dec. 14, 1880.



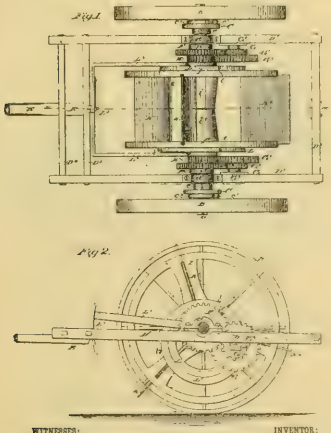
Witnesses:
W. A. Moore
F. P. Edwards.

Inventor
Thomas H. McCray
per W. R. Houghton, Atty.

(No Model.) 2 Sheets—Sheet 1.

H. H. SPENCER.
Spading Machine.

No. 236,641. Patented Jan. 11, 1881.



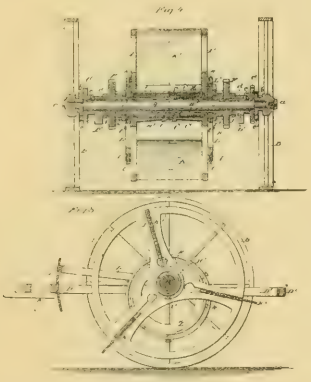
WITNESSES:
Jno. E. G. Knight
Geo. E. Kenna

INVENTOR:
H. H. Spencer
BY
Munn & Co
ATTORNEYS.

(No Model.) 2 Sheets—Sheet 2

H. H. SPENCER.
Spading Machine.

No. 236,641. Patented Jan. 11, 1881.



WITNESSES:
Jno. E. G. Knight
Geo. E. Kenna

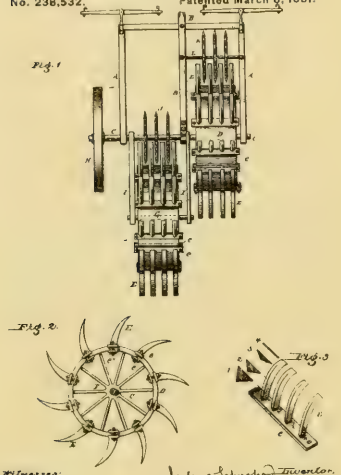
INVENTOR:
H. H. Spencer
BY
Munn & Co
ATTORNEYS.

(No Model.)

J. SCHUCHARD.

Rotary Spading Machine.

No. 238,532. Patented March 8, 1881.

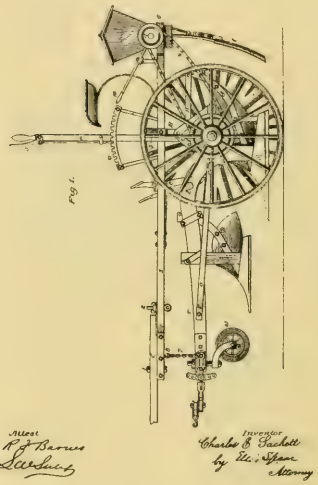


(No Model.) 10 Sheets—Sheet 1

C. E. SACKETT.

Combined Plow, &c.

No. 238,970. Patented March 15, 1881.

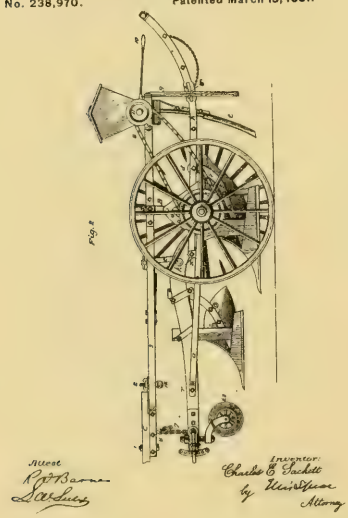


(No Model.) 10 Sheets—Sheet 2.

C. E. SACKETT.

Combined Plow, &c.

No. 238,970. Patented March 15, 1881.

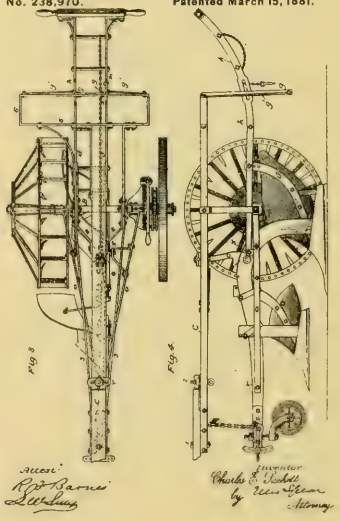


(No Model.) 10 Sheets—Sheet 3

C. E. SACKETT.

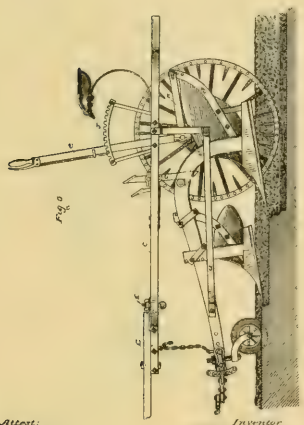
Combined Plow, &c.

No. 238,970. Patented March 15, 1881.



(No Model.) 10 Sheets—Sheet 4

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

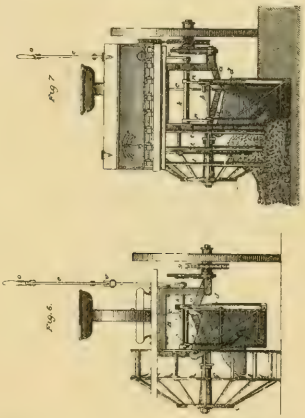


Witnesses:
R. J. Barnes
L. W. Seely

Inventor
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 10 Sheets—Sheet 5

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

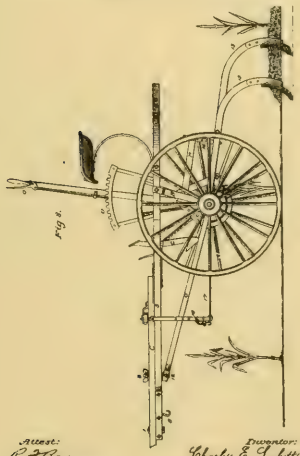


Witnesses:
R. J. Barnes
L. W. Seely

Inventor
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 10 Sheets—Sheet 6

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

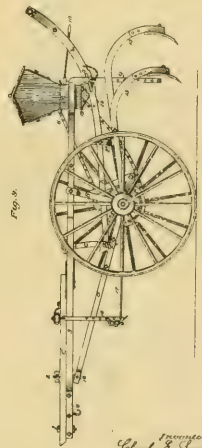


Witnesses:
R. J. Barnes
L. W. Seely

Inventor:
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 10 Sheets—Sheet 7

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.



Witnesses:
R. J. Barnes
L. W. Seely

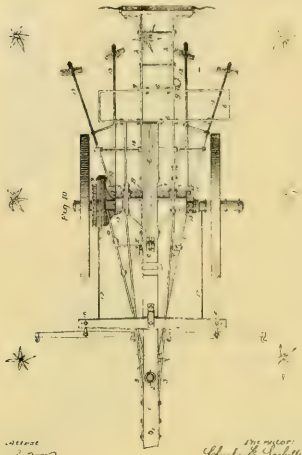
Inventor:
Charles E. Sackett
by Ellis Spear
Attorney

(No Model.) 10 Sheets—Sheet 8

C. E. SACKETT.

Combined Plow, &c

No. 238,970. Patented March 15, 1881.



Witnesses
R. J. Barnes
L. L. Lusby

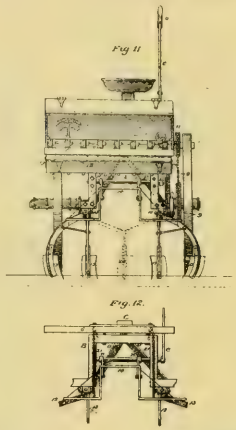
Inventor
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.) 10 Sheets—Sheet 9

C. E. SACKETT.

Combined Plow, &c.

No. 238,970. Patented March 15, 1881.



Witnesses
R. J. Barnes
L. L. Lusby

Inventor
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.) 10 Sheets—Sheet 10

C. E. SACKETT.

Combined Plow, &c.

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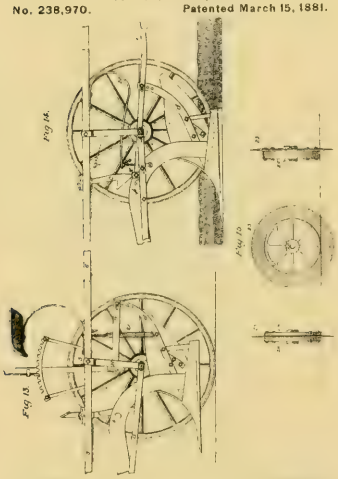
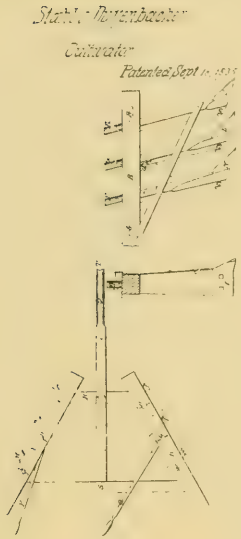
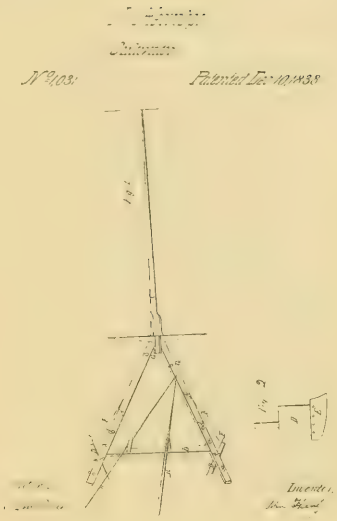
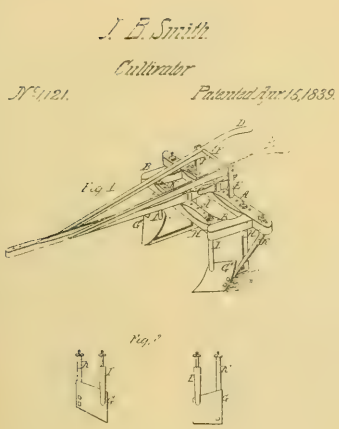


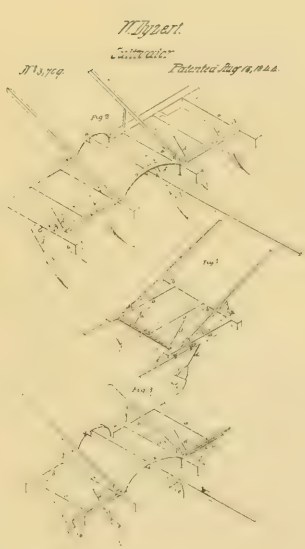
Witnesses
R. J. Barnes
L. L. Lusby

Inventor
Charles E. Sackett
by Wm. Spear
Attorney


Cultivator
Patented Sept


Cultivator
Patented Dec 10, 1838
Fig. 1
Fig. 2

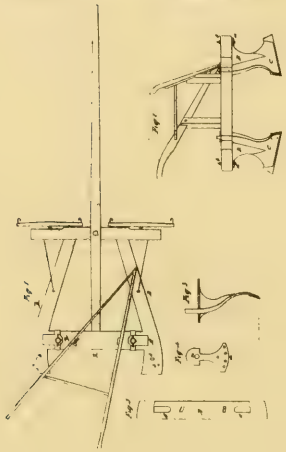

J. B. Smith
Cultivator
Patented Apr 15, 1839.
Fig. 1
Fig. 2


W. Ogert.
Cultivator
Patented Aug 16, 1844.
Fig 2
Fig 3
Fig 4

J. & C. Hrauser.

Cultivator.

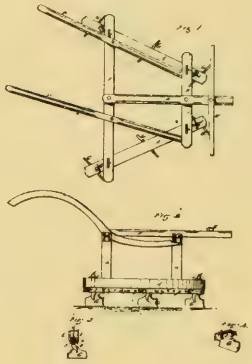
No. 7[illegible] Patented Sept 5, 1826.



G. Leichenthaler,

Cultivator.

No. 11,879. Patented July 25, 1854.

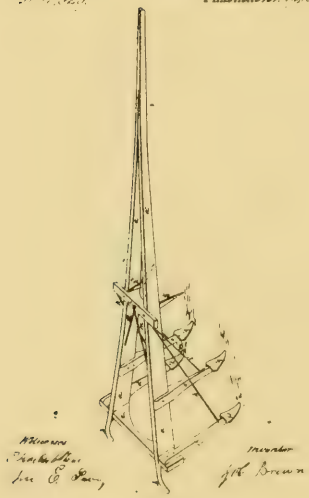


Witnesses: Inventor.

J. Brown.

Cultivator.

No. 9,229. Patented Nov. 14, 1864.

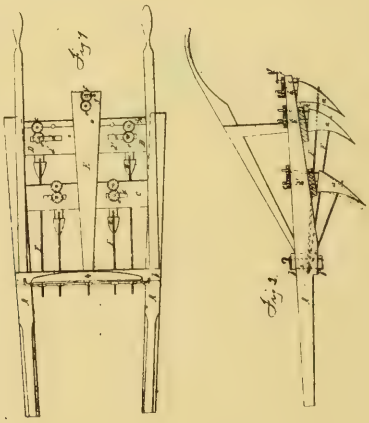


Witnesses: Inventor.

J. Rights

Cultivator

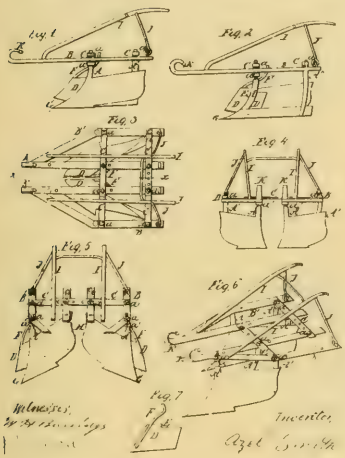
No. 16,928 Patented Dec. 22, 1857.



A. Smith.

Cultivator.

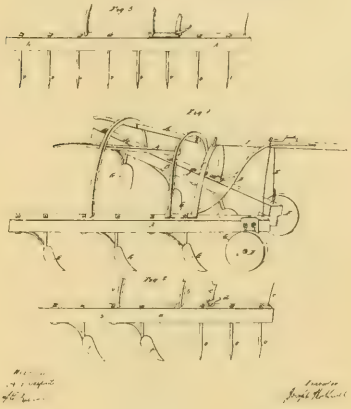
No. 24,411. Patented Jun. 14, 1859.



J. Thorwell.

Cultivator.

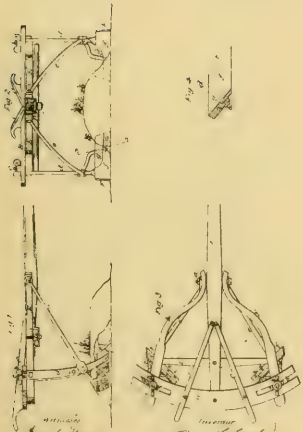
No. 24,411 Patented Jun. 14, 1859.



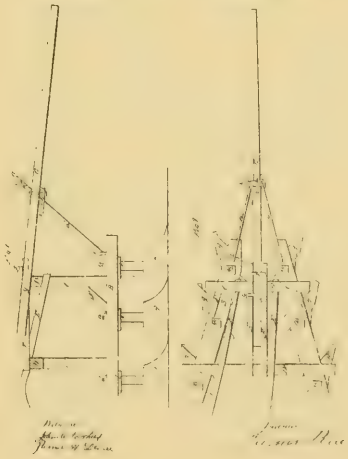
P. F. Freeland.

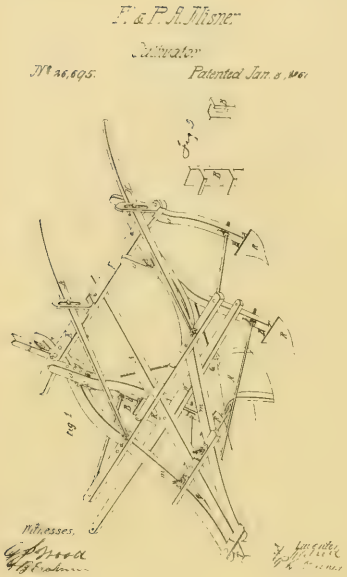
Cultivator.

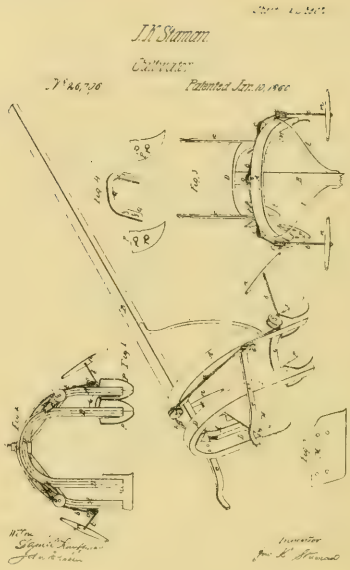
No. 25,000 Patented Aug. 9, 1859.

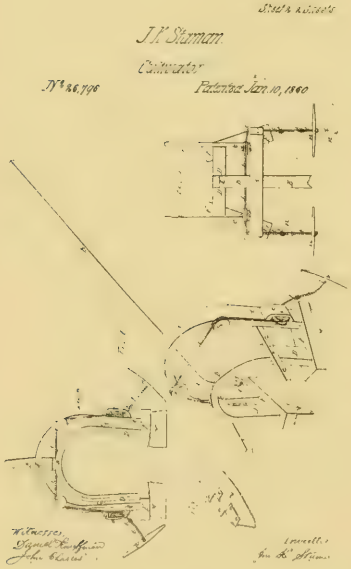


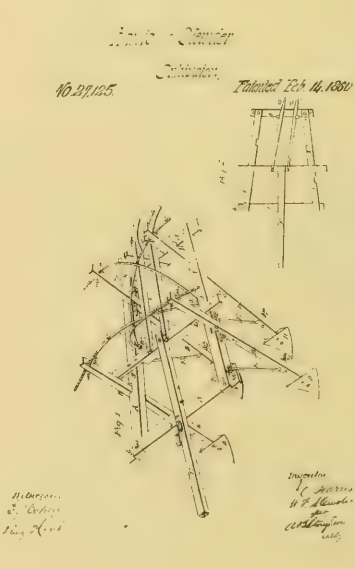
J. Rice.




F. & P. A. Thorne
Cultivator
No 26,695.
Patented Jan. 3, 1861
Witnesses,


J. N. Sturman
Cultivator
No 26,796
Patented Jan. 10, 1860
Witnesses
Inventor

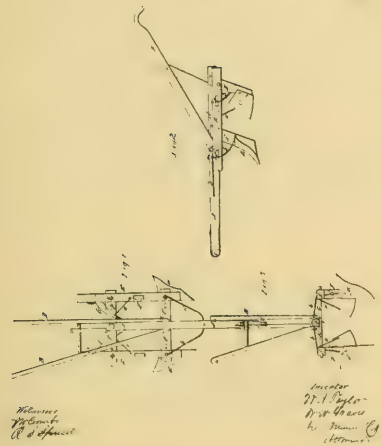

J. N. Sturman
Cultivator
No 26,796
Patented Jan. 10, 1860
Witnesses
Inventor


No 231,125.
Patented Feb. 14, 1880
Witnesses
Inventor

Taylor & Graves

Cultivator

No. 30,047 Patented Sept. 14, 1860.

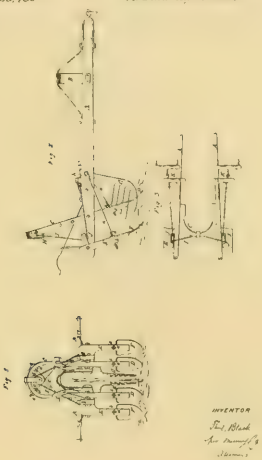


Sheet 1 Sheet.

T. Black

Cultivator

No. 29,752 Patented Aug. 21, 1860.

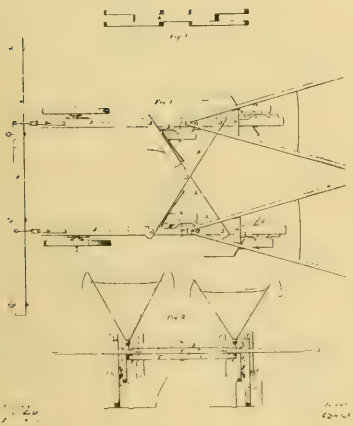


Sheet 1 Sheet.

G. W. N. Yost.

Cultivator.

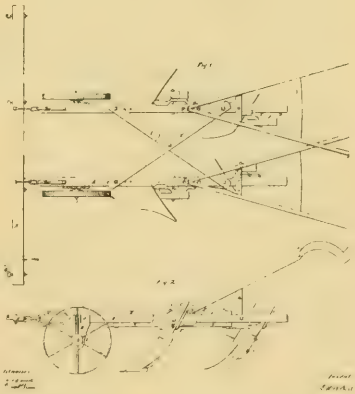
No. 29,814 Patented Aug. 28, 1860.



G. W. N. Yost

Cultivator

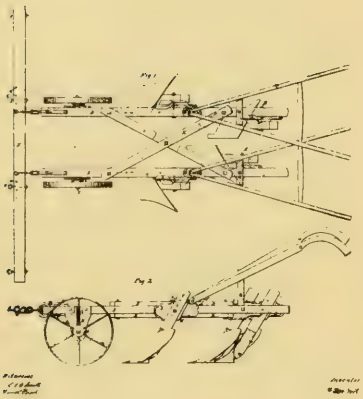
No. 30,914 Patented Aug. 28, 1860



G. W. Yost.

Cultivator.

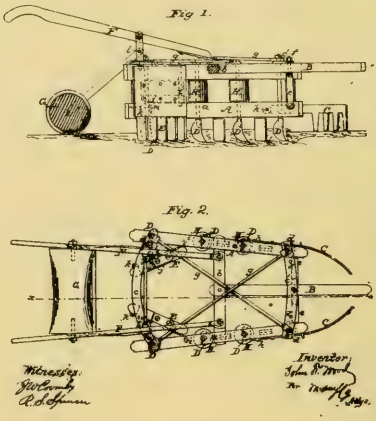
No. 29,914. Patented Aug. 28, 1860.



J. F. Wood

Cultivator.

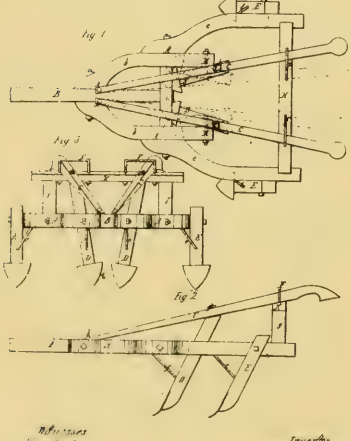
No. 30,173. Patented Sept. 25, 1860.



C. Debolt.

Cultivator.

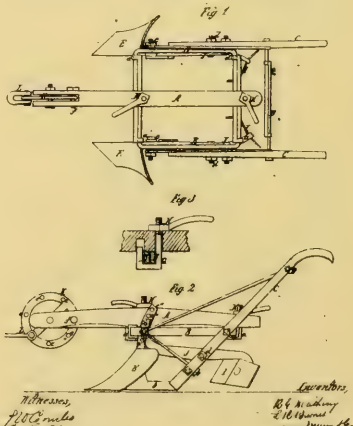
No. 30,302. Patented Oct. 9, 1860.



Matheny & Barnes

Cultivator.

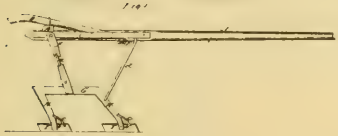
No. 30,731. Patented Nov. 27, 1860.

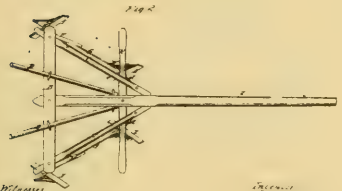


N. Messenger.

Cultivator

No. 30,745 Patented Nov 27, 1860





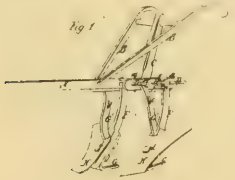
Witnesses

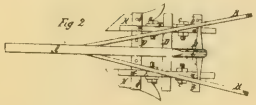
Inventor

Moore & Satterwhite.

Cultivator

No. 30,728 Patented Nov 27, 1860





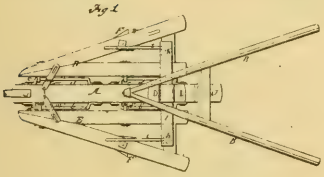
Witnesses,

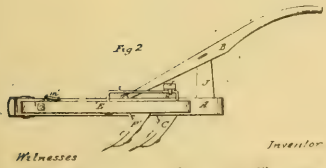
Inventors,

H. C. Ravenscroft.

Cultivator.

No. 30,758. Patented Nov. 27, 1860





Witnesses

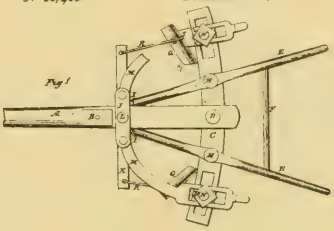
Inventor

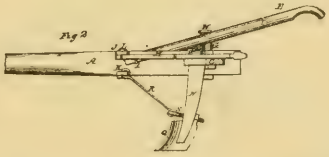
Harrison C. Ravenscroft

Geisinger & Williams.

Cultivator.

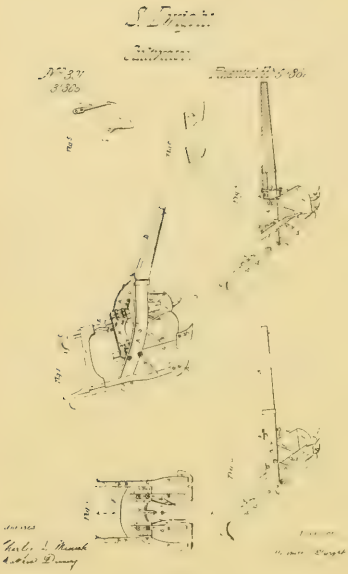
No. 30,983. Patented Dec. 18, 1860

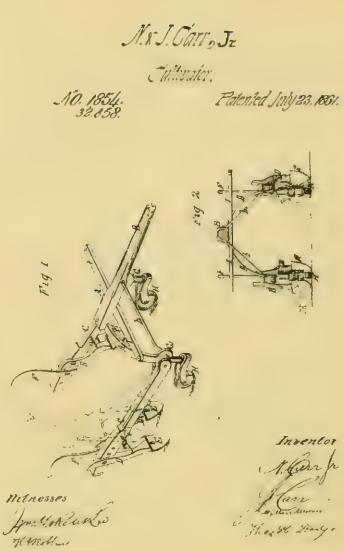


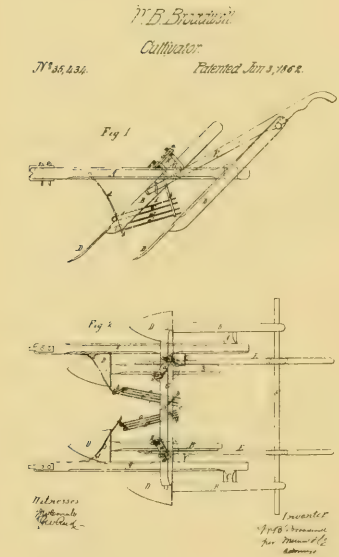


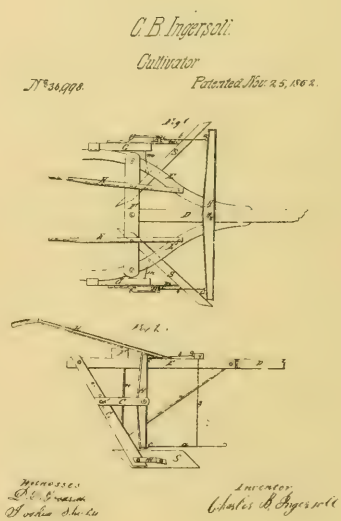
Witnesses

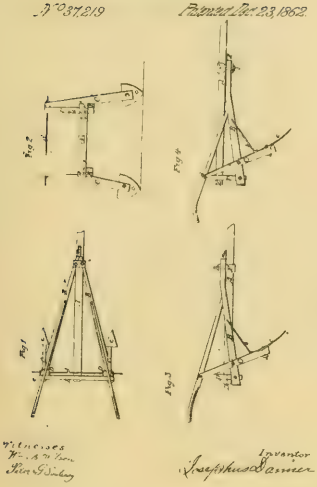
Inventor

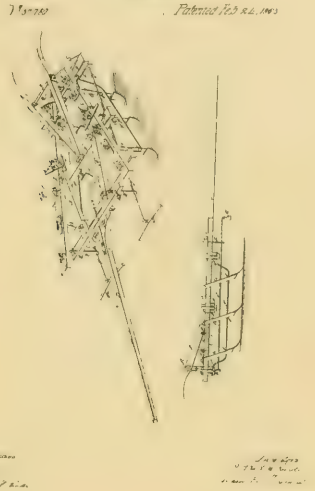


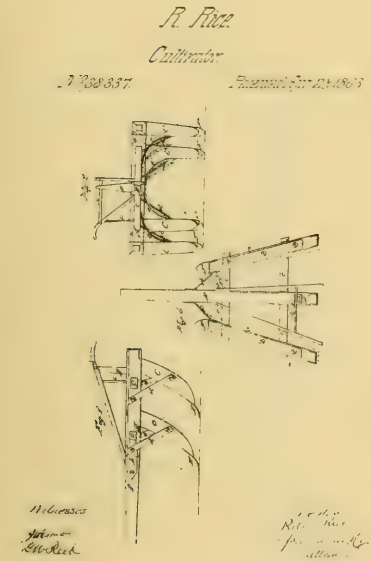

N. J. Carr, Jr.
Cultivator.
No. 185,4[illegible]
32,858.
Patented July 23, 1861.
Fig. 1
Fig. 2
Inventor
Witnesses

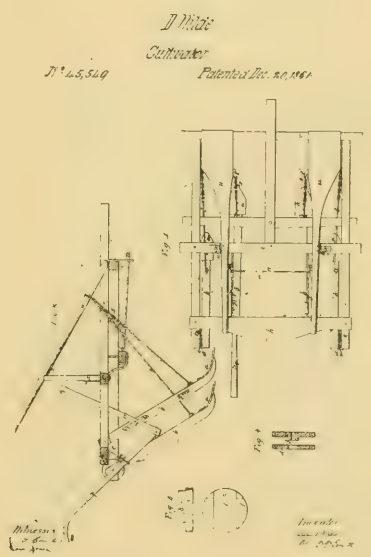

W. B. Brouthill
Cultivator
No. 35,434.
Patented Jun 3, 1862.
Fig. 1
Fig. 2
Witnesses
Inventor


C. B. Ingersoll.
Cultivator
No. 36,998.
Patented Nov. 25, 1862.
Fig. 1
Fig. 2
Witnesses
Inventor
Charles B. Ingersoll


J. Dovner.
Cultivator.
No 37,219
Patented Dec 23, 1862.
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses
Inventor
Joseph Dovner


P.B. & I.C. Reynolds
Cultivator
Patented Feb 5 1861
Witnesses
Inventors

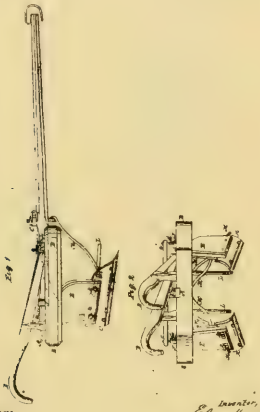

R. Rice.
Cultivator
No 38,837.
Patented June 23, 1863
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses
Inventor
R. Rice


D. Wilde
Cultivator
No 45,540
Patented Dec 20, 1864
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses
Inventor

E. Minnich.

Cultivator.

No. 46,376. Patented Feb. 14, 1865.



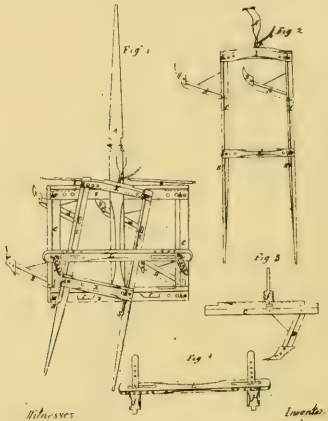
Witnesses
J. Light
W. Wike

Inventor
Elias Minnich
By his Atty
Humphrey Hoping

J. T. Beyer.

Cultivator.

No. 48,368. Patented Jun. 27, 1865.



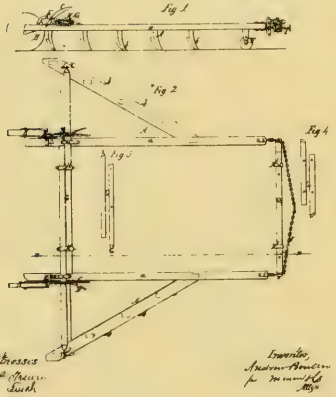
Witnesses
Jos. E. Ellis
Chas. Seibert

Inventor
(Mark Thomas)

A. Bouton.

Cultivator.

No. 50,217. Patented Oct. 3, 1865.



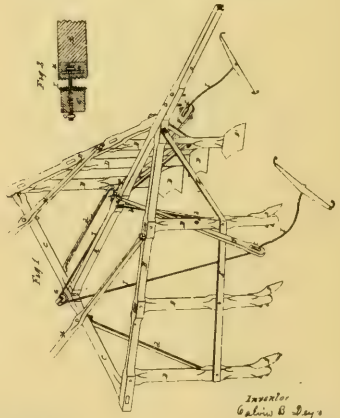
Witnesses
Wm. Steuer
Geo. Smith

Inventor
Andrew Bouton
per Munn & Co
Attys

C. B. Deyo.

Cultivator.

No. 52,542. Patented Feb. 13, 1866.



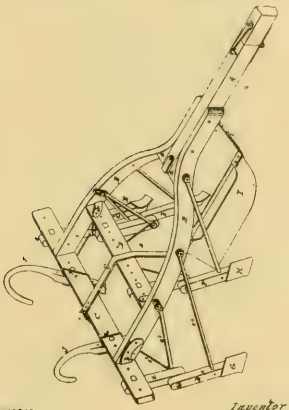
Witnesses
J. W. Dunlap
Geo. B. Nichols

Inventor
Calvin B. Deyo
Coburn & Mann
Attorneys

S. Dright.

Cultivator

No. 53,592. Patented April 3, 1866.



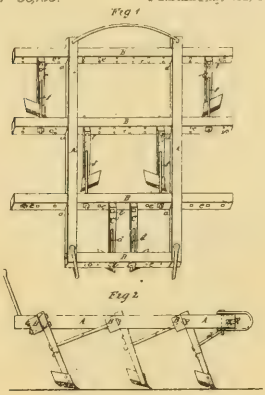
Witnesses

Inventor

T. W. Webb.

Cultivator

No. 56,135. Patented May 29, 1866.



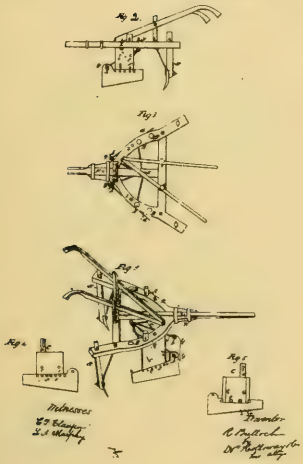
Witnesses:

Inventor

R. Bullock.

Cultivator

No. 56,172. Patented Jul. 10, 1866.



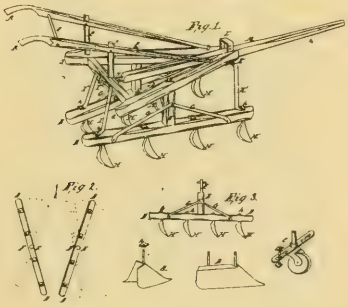
Witnesses

Inventor

W. Cearr.

Cultivator.

No. 57,699. Patented Sept. 4, 1866.



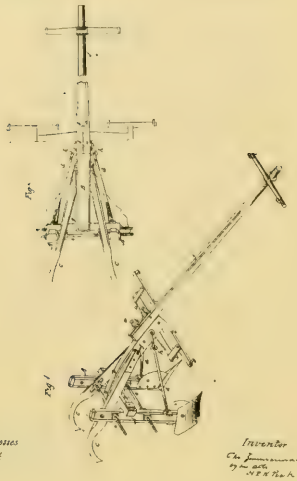
Witnesses.

Inventor.

C. Zimmerman.

Cultivator.

No. 58,534 Patented Oct. 2, 1866



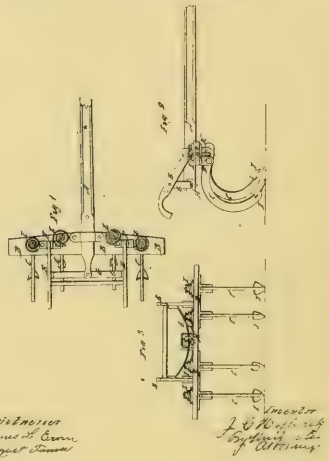
Witnesses

Inventor

J. C. Hoffeditz

Cultivator

No. 60,992. Patented Jan. 1, 1867



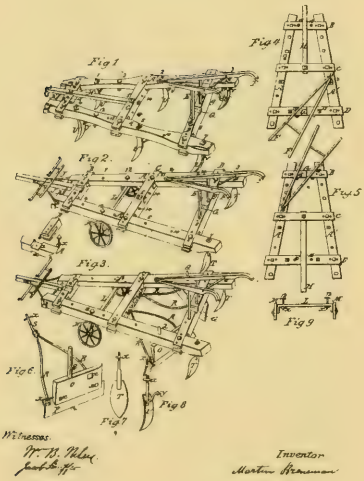
Witnesses

Inventor

M. BRENEMAN.

Cultivator

No. 61,512. Patented Jan. 29, 1867



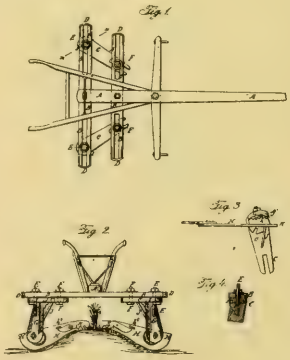
Witnesses:

Inventor

CHANDLER & NICKELS.

Cultivator.

No. 62,181. Patented Feb. 19, 1867.



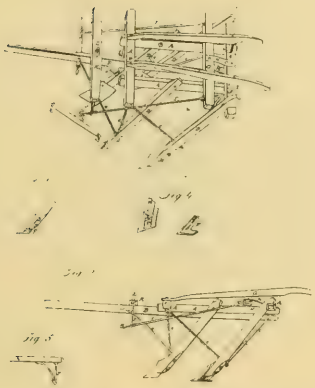
Witnesses.

Inventor.

A. F. & T. M. STANSBURY

Cultivator.

No. 62,898. Patented Mar. 12, 1867



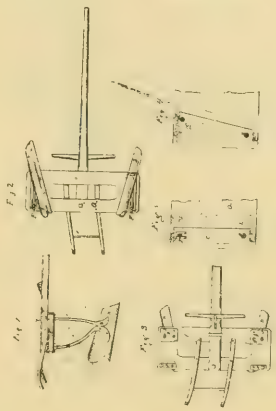
Witnesses.

Inventor.

G. J. Kurtz

Cultivator.

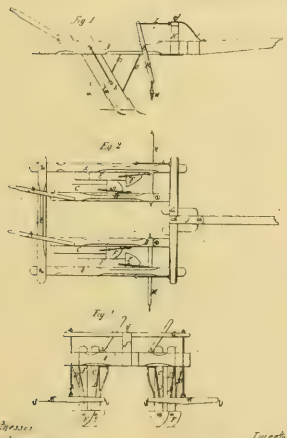
No. 63,386. Patented Apr. 2, 1867.



J. M. Hanna.

Cultivator

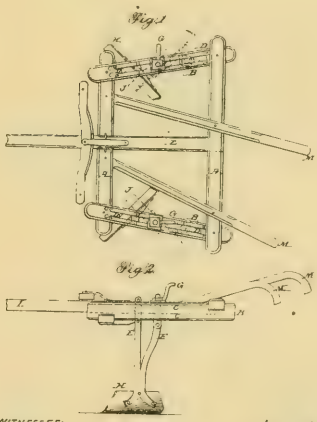
No. 62,878. Patented Mar. 12, 1867.



J. KURTZ

Cultivator

No. 66,717 Patented July 16, 1867



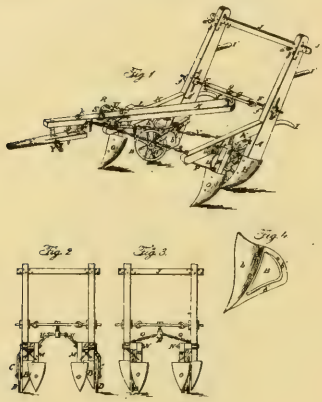
WITNESSES:

INVENTOR:

C. C. CREEK.

Cultivator.

No. 68,290 Patented Aug. 27, 1867.



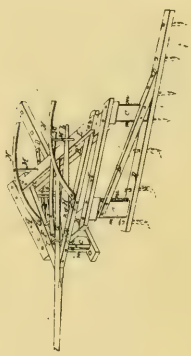
Witnesses:

Inventor.

M. WILSON.

Cultivator.

No. 68,678 Patented Sept. 10, 1867.



Witnesses:

L. R. Davis

L. N. Palmer

Inventor.

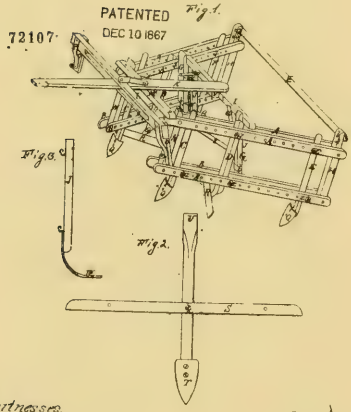
C. E. Steller

Cultivator.

PATENTED

DEC 10 1867

72107



Witnesses,

Inventor

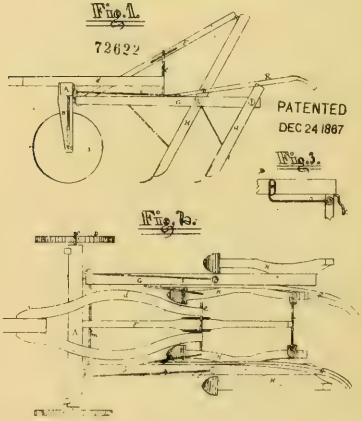
J. T. Frankeberger's Cultivator.

Fig. 1.

72622

PATENTED

DEC 24 1867



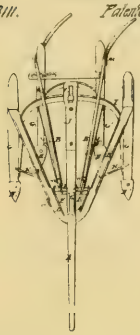
Witnesses

Inventor

Thompson v. Collier,

Cultivator.

No. 83111. Patented Oct. 13. 1868.



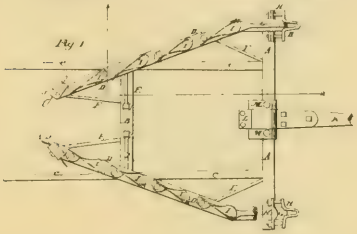
Witnesses:
R. F. Lanier
Louis Hodges

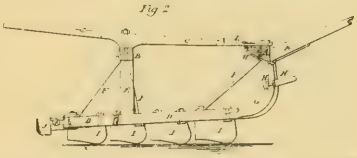
Inventor:
H. J. Collier
per Munn & Co
Attorneys

H. C. Briggs

Cultivator.

No. 84,165 Patented Nov. 17, 1868.





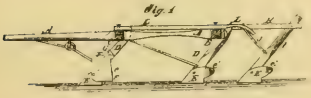
Witnesses
Hm. A. Mergo
G. G. Collier

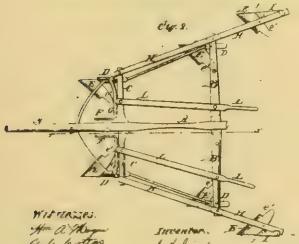
Inventor
H. C. Briggs
per Munn & Co
Attorneys

J. W. Jessop,

Cultivator.

No. 85387 Patented Dec. 29. 1868.





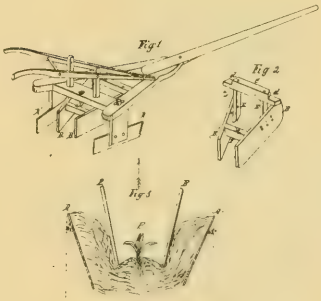
Witnesses.
Hm. A. Mergo
G. G. Collier

Inventor.
J. W. Jessop
per Munn & Co
Attorneys

S. B. Shaw,

Cultivator.

No. 88,968. Patented Jan. 12. 1869.



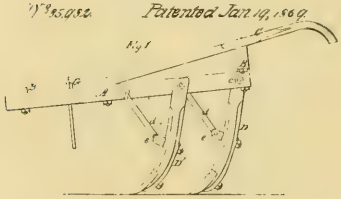
Witnesses
Wm. B. Blake
Geo. Dwyer

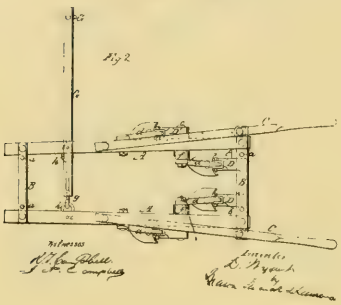
Inventor.
Samuel B. Shaw

D. Wyant. Sheet 1. 2 Sheets.

Corn Plow.

No. 85,052. Patented Jan. 19, 1869.





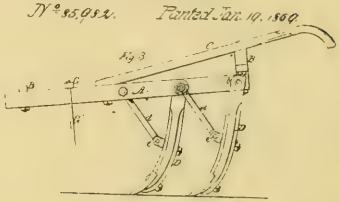
Witnesses
W. Ewing Schell
J. Ewing Schell

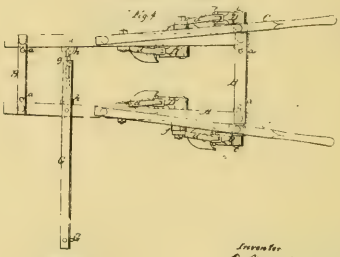
Inventor
D. Wyant
by
Wm. Smith & Sons

D. Wyant. Sheet 2. 2 Sheets.

Corn Plow.

No. 85,052. Patented Jan. 19, 1869.





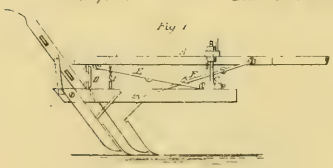
Witnesses
W. Ewing Schell
J. Ewing Schell

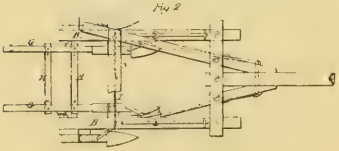
Inventor
D. Wyant
by
Wm. Smith & Sons

J. Powell

Cultivator

No. 88,609. Patented Mar. 30, 1869.





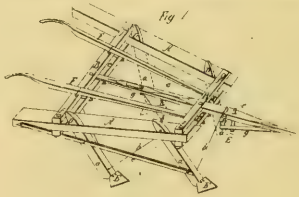
Witnesses
Geo. Barker
J. Rogers

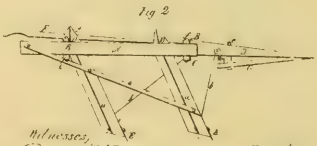
Inventor
J. Powell
Munn & Co.
Attorneys

R. D. Cleyt.

Cultivator

No. 91,718 Patented Jun. 22, 1869.

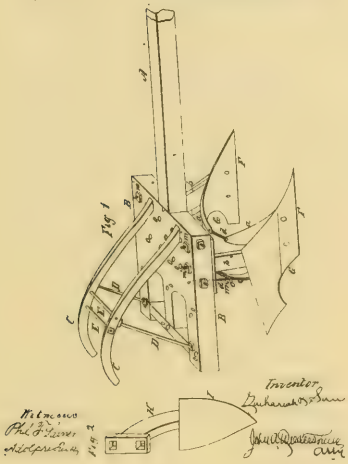




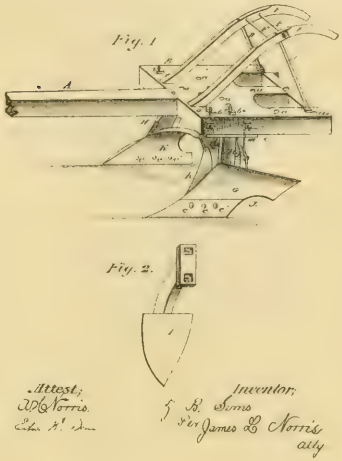
Witnesses,
Robert A. Hord.
H. Hope

Inventor,
Robert D. Cleyt

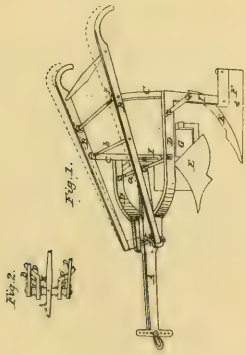
Z. B. Sims.
Plow
No. 94,350. Patented Aug. 31, 1869.



Z. B. SIMS.
Cotton Plows.
No. 5,513. Reissued July 29, 1873



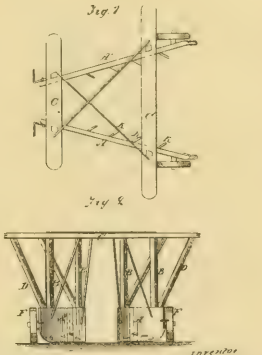
L. Guthrie.
Cultivator
No. 94,490. Patented Sep. 7, 1869.



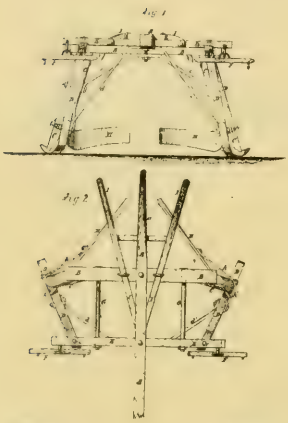
WITNESSES:
Edwin Crawley
W. H. Dennis

INVENTOR:
Lewis Guthrie

Ray. v. Young,
Cultivator.
No. 95,044. Patented Sep. 21, 1869.



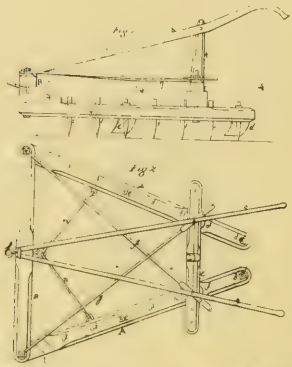
F. Schroeder,
Cultivator.
No. 101,468. Patented Apr. 5, 1870.



Witnesses:

Inventor:

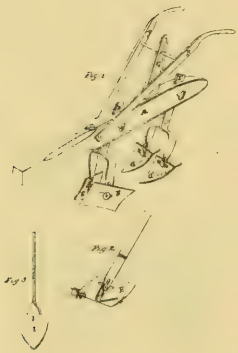
R. Watting,
Cultivator.
No. 101,695. Patented Apr. 5, 1870.



Witnesses

Inventor

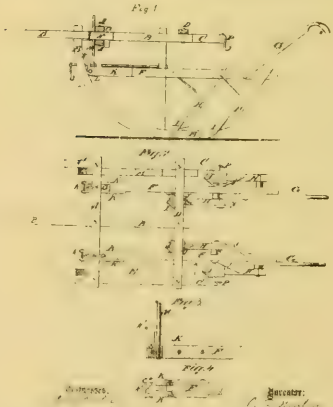
Cultivator.
No. 105,320. Patented July 12, 1870.



Witnesses

Inventor

J. F. Vander
Cultivator
No. 108,384. Patented Oct. 18, 1870.



Witnesses

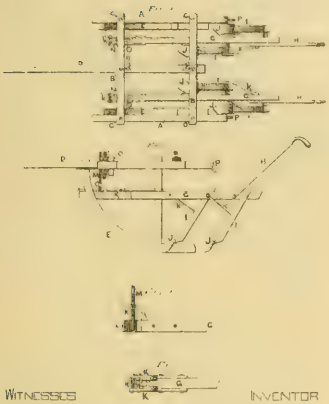
Inventor:

Per

Attorneys.

C. P. NORTON.
Cultivators.

No. 5,557. Reissued August 26, 1873.



WITNESSES

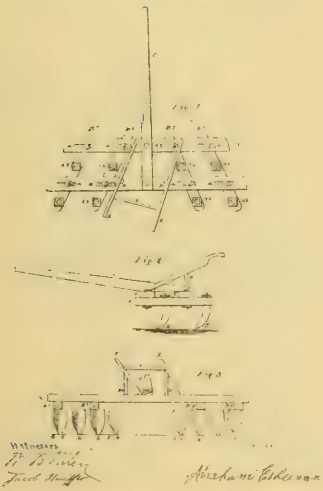
INVENTOR

Witnesses

Inventor

A. Eckleman,
Cultivator.

No. 109812 Patented Dec. 6, 1870.

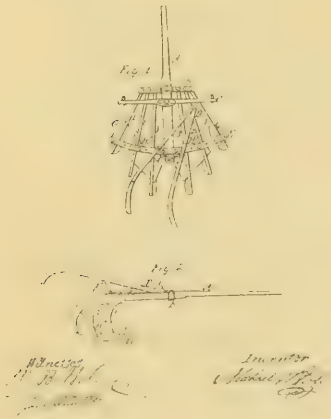


Witnesses

Abraham Eckleman

M. Stoll.
Cultivator

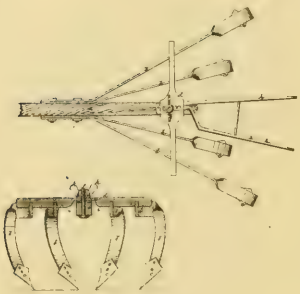
No. 113,109. Patented Mar. 28, 1871.



Witnesses

Inventor

J. S. Thomas,
Cultivator.
No. 113,223. Patented Mar. 28. 1871



Witnesses:
H. C. Smith
L. E. Potter

Inventor:
Joseph S. Thomas
per Munn & Co
Attorneys.

James T. Thompson's Cultivator.
Patented Jul 4 1871.
No. 1
116776
Fig 1

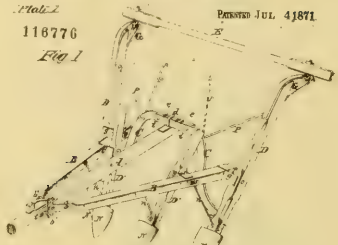
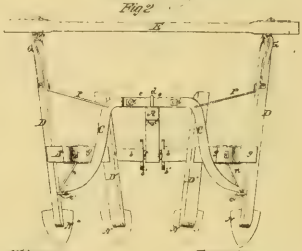


Fig 2



Witnesses.
A. J. Campbell
J. H. Campbell

Inventor
James T. Thompson
by
Munn & Co Attorneys

James T. Thompson's Cultivator
Fig. 3

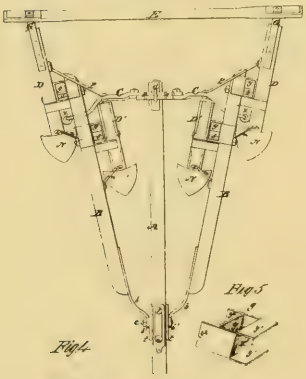


Fig 5

Fig 4

Witnesses
Inventor
James T. Thompson
by
Munn & Co Attorneys

Simon A. Cummins.
Improved Plow.
Patented Aug 1 1871
117608

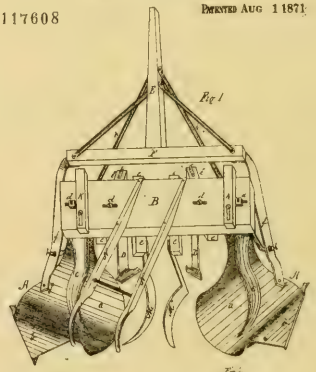
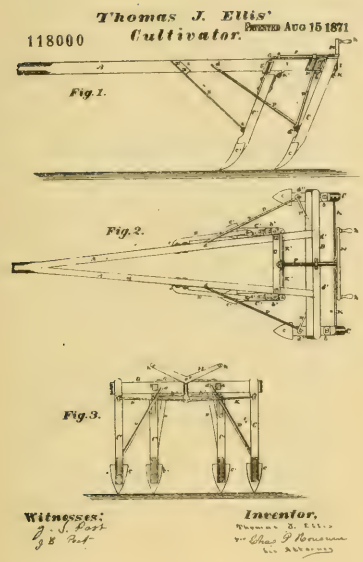


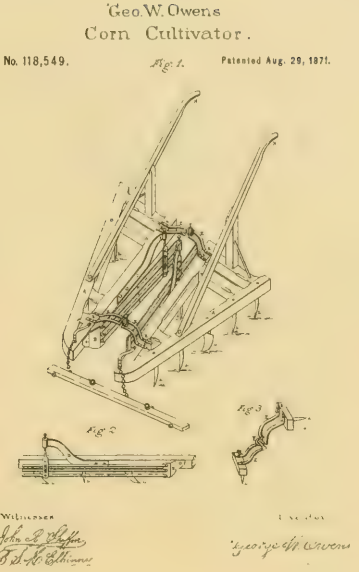
Fig 1

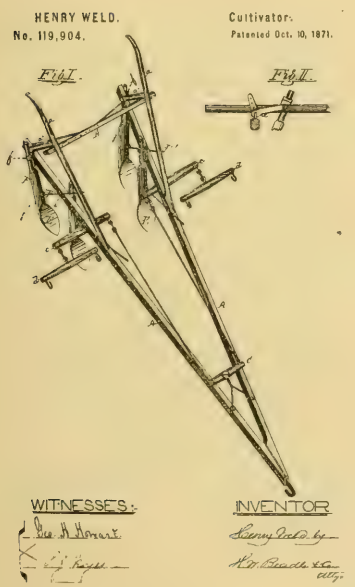
Fig 3

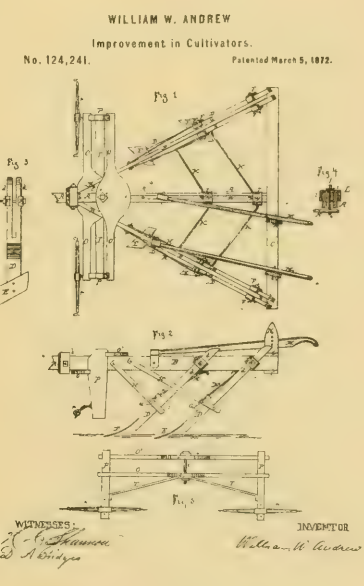
Fig 2

Witnesses.
W. Walters.
Simon A. Cummins
Inventor
by
Munn & Co
Attorneys.


Thomas J. Ellis'
Cultivator.
118000
Patented Aug 15 1871
Fig. 1.
Fig. 2.
Fig. 3.
Witnesses:
Inventor.


Geo. W. Owens
Corn Cultivator.
No. 118,549.
Fig. 1.
Patented Aug. 29, 1871.
Fig 2
Fig 3

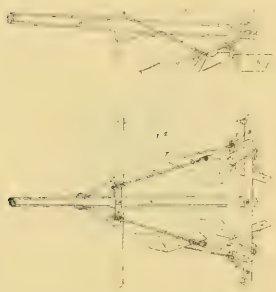

HENRY WELD.
No. 119,904.
Cultivator.
Patented Oct. 10, 1871.
Fig I.
Fig II.
WITNESSES:
INVENTOR


WILLIAM W. ANDREW
Improvement in Cultivators.
No. 124,241.
Patented March 5, 1872.
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
WITNESSES:
INVENTOR

R. E. MASON.

Improvement in Cultivators.

No. 128,497. Patented July 2, 1872.



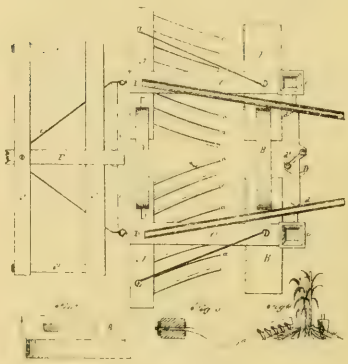
Inventor

2 Sheets--Sheet 1

A. C. TOWER.

Cultivators.

No. 134,824. Patented Jan. 14, 1873



Witnesses

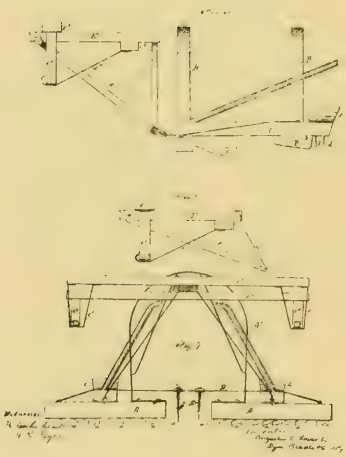
Inventor

2 Sheets--Sheet 2

A. C. TOWER.

Cultivators.

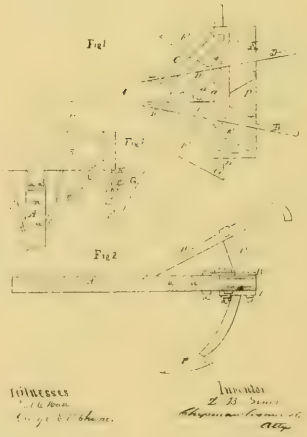
No. 134,824. Patented Jan 14 1873.



Z. B. SIMS

Cultivators

No. 135,165 Patented Jan. 21, 1873



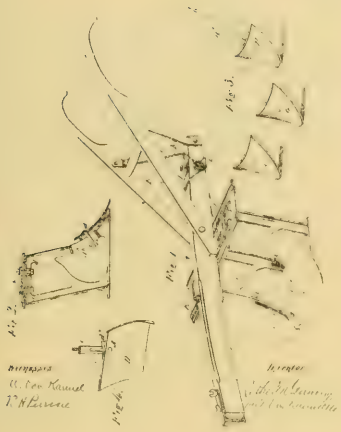
Witnesses

Inventor

L. M. GANONG.

Cultivators.

No. 151,500 Patented March 4, 1873.



C. M. HALL

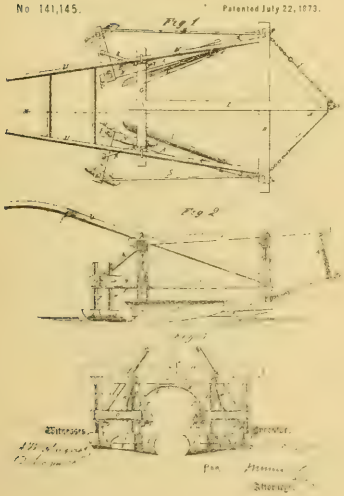
Adjustable Brace-Couplings.

7,609 Patented April 8, 1873

O. KUGLER.

Cultivators.

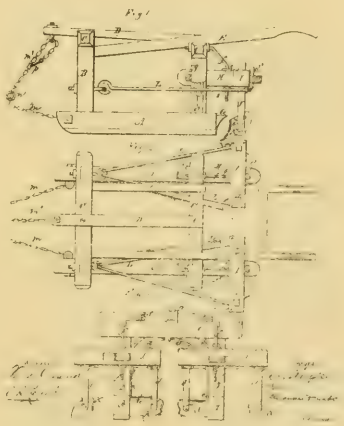
No. 141,145. Patented July 22, 1873.



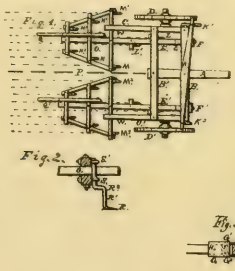
O. KUGLER

Cultivators.

No. 141,146. Patented July 22, 1873

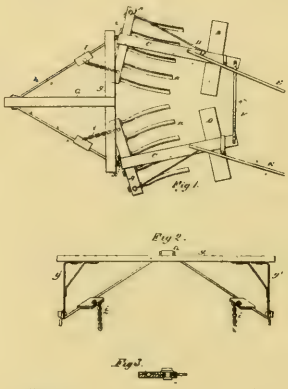


J. L. GRAHAM.
Plows
No. 145,862. Patented Dec. 23, 1873



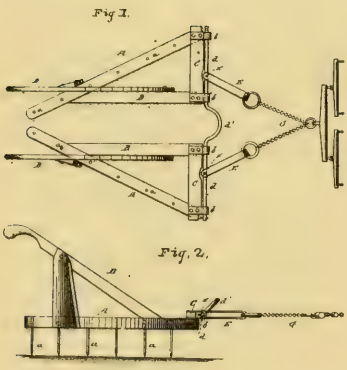
Witness:
Inventor:
John Lindsay Graham.
By Saml. J. Wallace.
Attorney.

A. C. TOWER.
Cultivators
No. 152,778. Patented July 7, 1874.



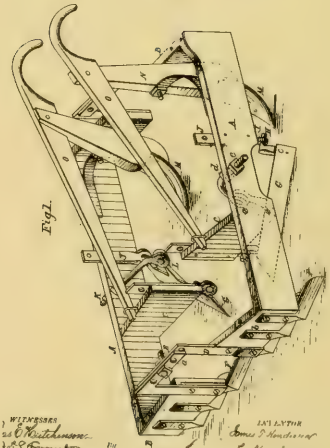
Witnesses:
Inventor.
Augustus C. Tower
by H. W. Beadle & Co.
Attys

J. H. RICE.
Cultivator.
No. 159,842. Patented Feb. 16, 1875.



Witnesses:
Inventor.
John H. Rice
per C. H. Watson & Co.
Attorneys.

T. HENDERSON.
Cultivator.
No. 161,882. Patented April 13, 1875.
2 Sheets--Sheet 1

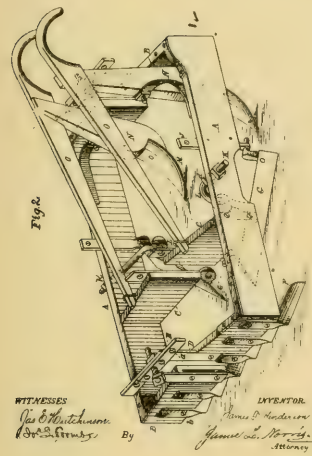


Witnesses
Inventor
James T. Henderson
James C. Norris
Attorney

2 Sheets--Sheet 2

J. T. HENDERSON.
Cultivator.

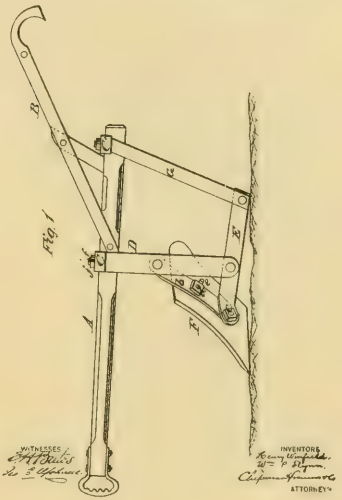
No. 161,882. Patented April 13, 1875.



3 Sheets--Sheet 1

H. WINFIELD & W. P. FLYNN.
Cultivator.

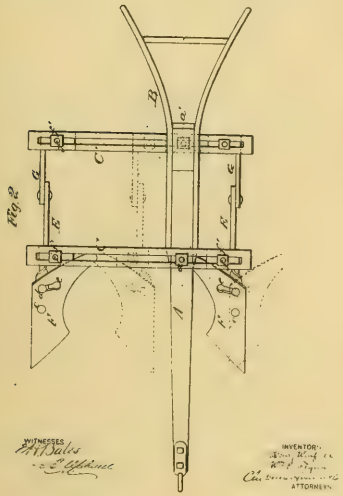
No. 168,074. Patented Sept. 21, 1875.



3 Sheets--Sheet 2.

H. WINFIELD & W. P. FLYNN.
Cultivator.

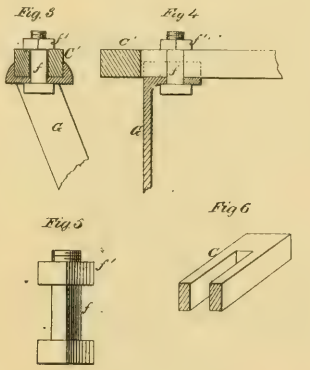
No. 168,074. Patented Sept. 21, 1875.



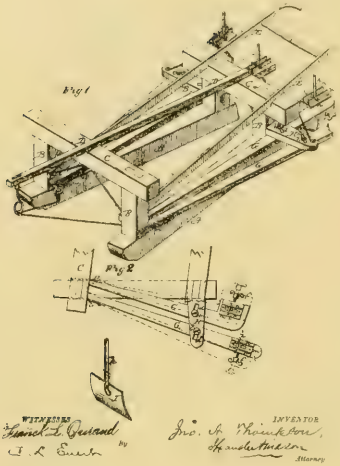
3 Sheets--Sheet 3

H. WINFIELD & W. P. FLYNN.
Cultivator.

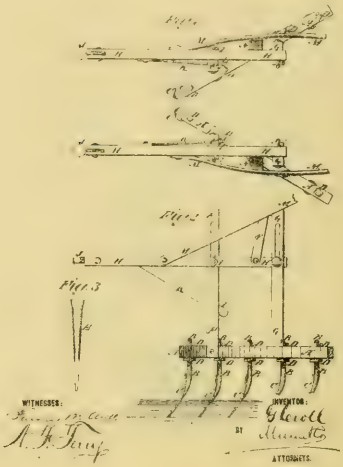
No. 168,074. Patented Sept. 21, 1875.



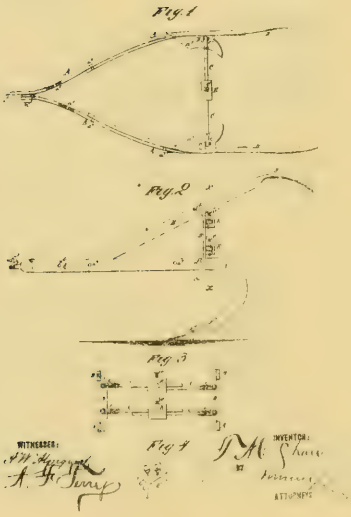
J. A. THOMPSON
Cultivator.
No. 168,296. Patented Sept. 28, 1875



G. CROLL
COMBINED CULTIVATOR AND HARROW
No. 169,677. Patented Nov. 9, 1875

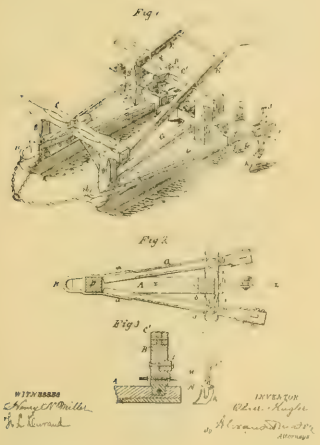


T. M. SHAW.
GANG-PLOW.
No. 170,778. Patented Dec. 7, 1875

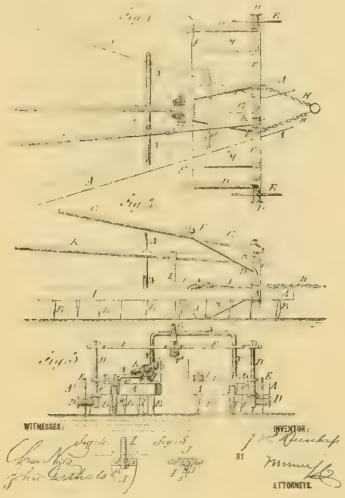


T. J. HOOVER & J. T. HENDERSON.
PLOW
No. 175,985 Patented April 11, 1876.

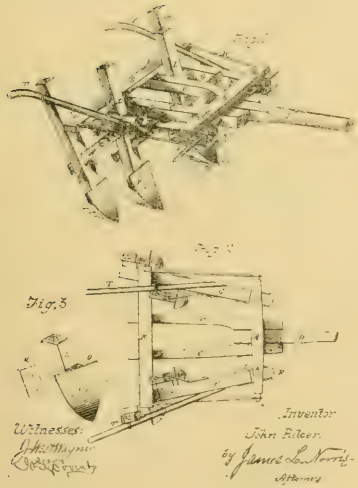
C. KUDLER.
CULTIVATORS
No. 180,354. Patented July 25, 1876.



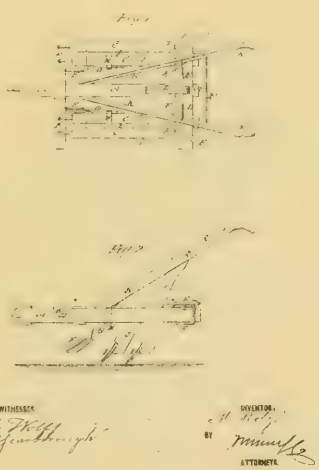
J. R. DUNLAP
COMBINED CULTIVATOR AND HARROW
No. 181,654. Patented Aug. 29, 1876.



J. FALCER.
CULTIVATOR
No. 182,953. Patented Oct. 3, 1876.

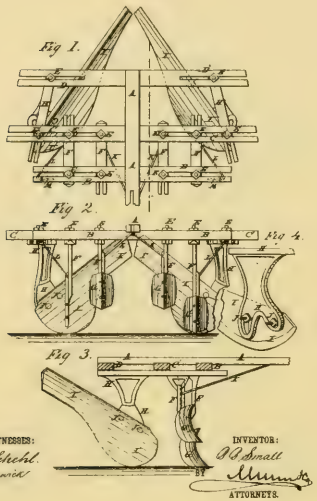


M. ROBY.
COMBINED COTTON-SCRAPER AND CULTIVATOR.
No. 191,613. Patented June 5, 1877.



B. B. SMALL.
Combined Horse Hoe and Cultivator

No. 222,087. Patented Nov. 25, 1879.



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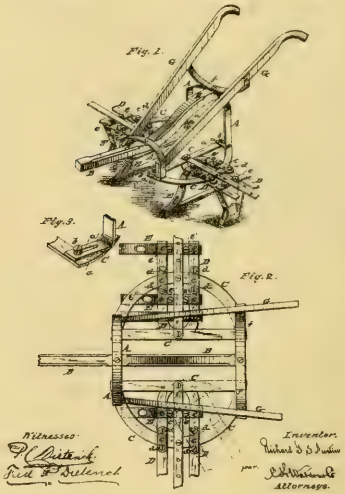
R. G. S. AUSTIN.
Cotton Cultivator

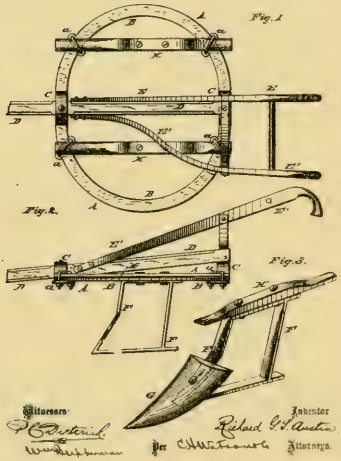
No. 228,853. Patented June 15, 1880.



(No Model.)

R. G. S. AUSTIN.
Cotton Cultivator.

No. 236,970. Patented Jan. 25, 1881.



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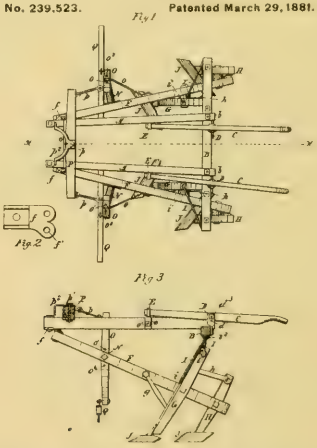
E. S. McEWEN & O. R. ADAMS.
Cultivator

No. 239,523. Patented March 29, 1881.



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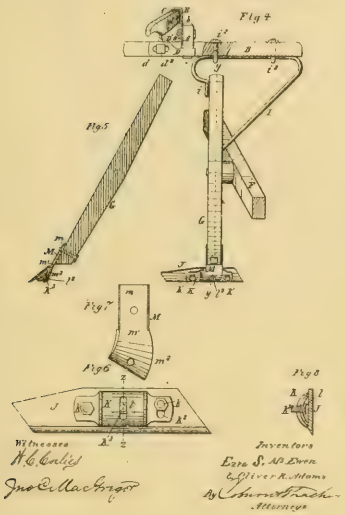
E. S. McEWEN & O. R. ADAMS.

Cultivator

No. 239,523. Patented March 29, 1881.

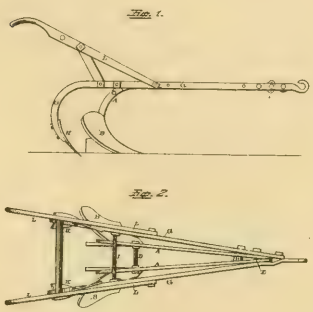


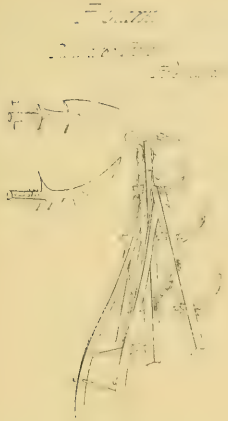
(No Model.)

C. H. CARTER.

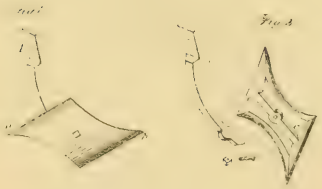
Plow.

No. 242,508. Patented June 7, 1881.



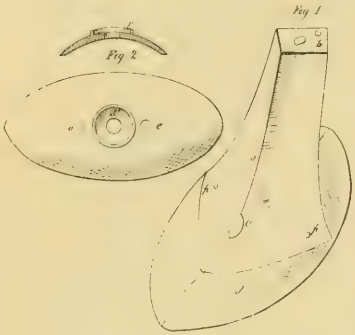


J. S. EASTMAN
Cultivator-Teeth.
Patented June 29, 1856



I. M. Carnell.
Cultivator-Teeth.
No. 914. A. I. Patented Oct. 13, 1838.

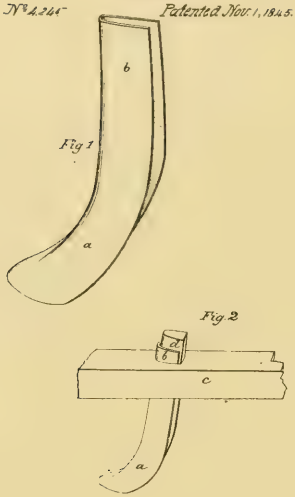
J. Birdsell.
Cultivator-Teeth.
No. 3,819. Patented Nov. 9, 1844.



D. B. Rogers.

Cultivator Teeth.

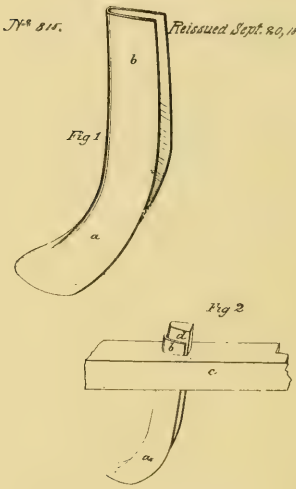
No. 4,244. Patented Nov. 1, 1845.



D. B. Rogers.

Cultivator Teeth.

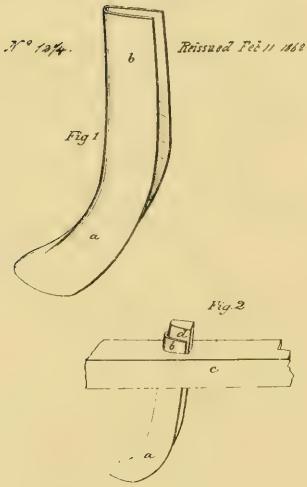
No. 815. Reissued Sept. 20, 1850.



D. B. Rogers.

Cultivator Teeth.

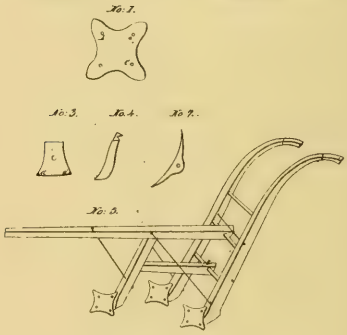
No. 1244. Reissued Feb. 11, 1852

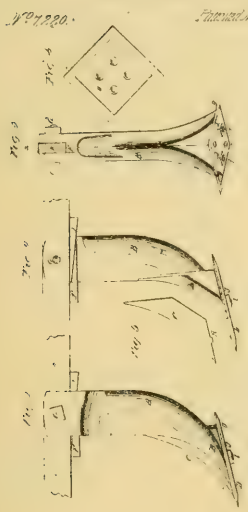


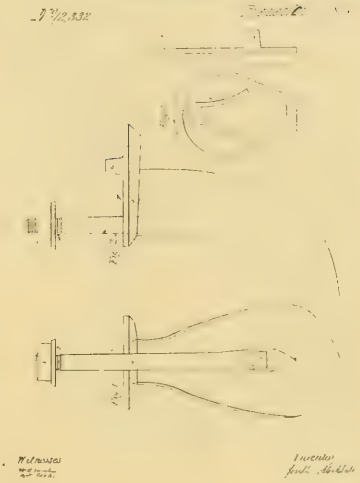
J. S. Haney.

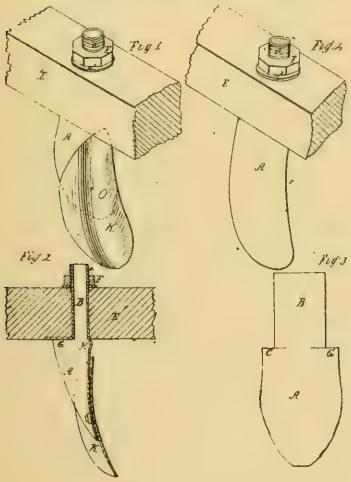
Cultivator Teeth.

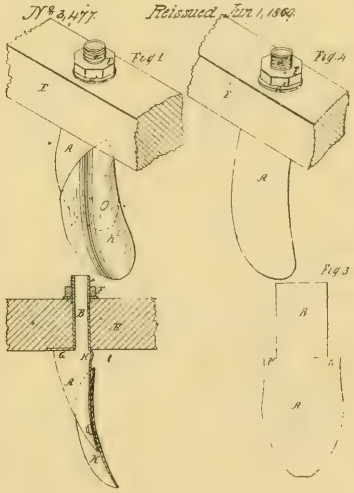
No. 6,336. Patented Apr. 17, 1849

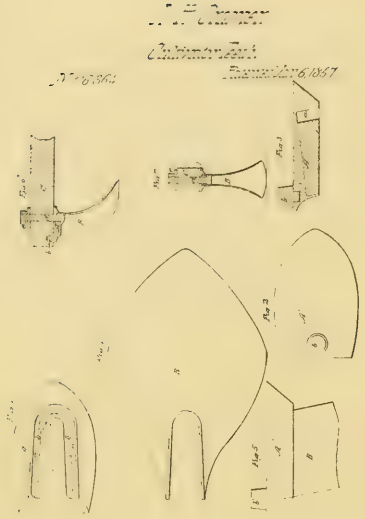


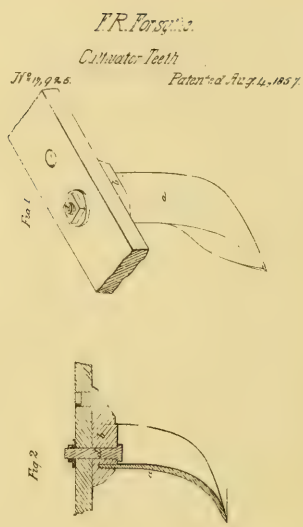

Cultivator Teeth
Patented Mar 26, 1850

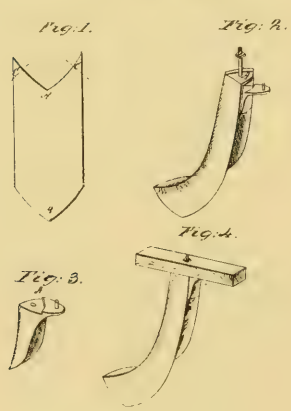

Cultivator Teeth

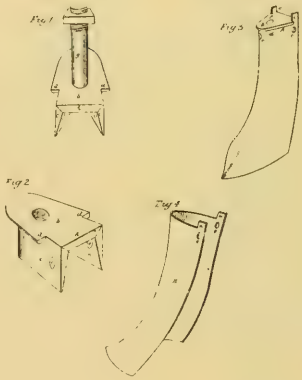

Sayre & Klinch
Cultivator Teeth.
Patented Feb. 12, 1850.
Fig 1
Fig 2
Fig 3
Fig 4


Sayre & Klinch
Cultivator Teeth.
Reissued Jun. 1, 1860.
Fig 1
Fig 3
Fig 4


Cultivator Teeth
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5


F. R. Forsythe.
Cultivator Teeth
Patented Aug 4, 1857
Fig 1
Fig 2


E. L. Freeman.
Cultivator Teeth.
Patented Sept 8, 1857.
Fig: 1.
Fig: 2.
Fig: 3.
Fig: 4.


C. H. Sayre
Cultivator Teeth
Patented Oct 27, 1857
Fig 1
Fig 2
Fig 3
Fig 4

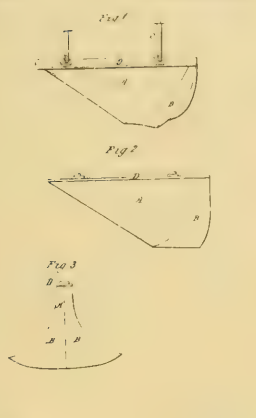
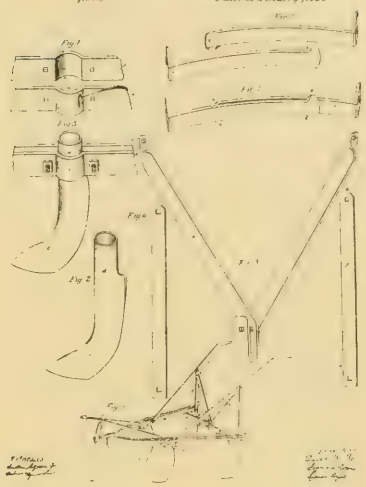
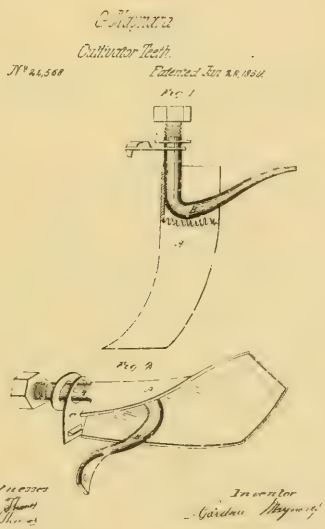
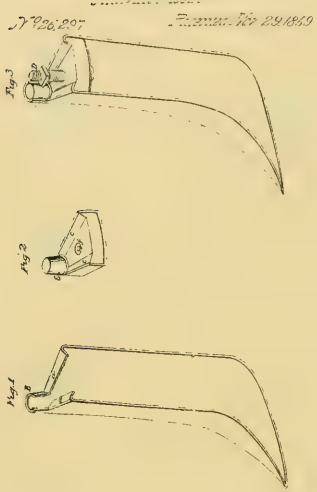


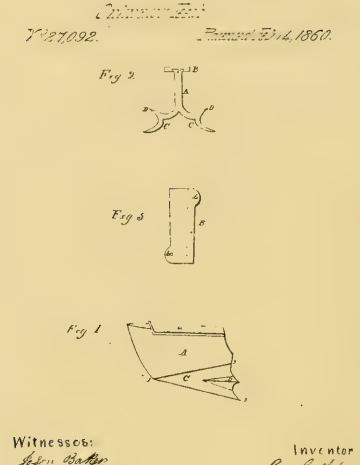
Fig 1
Fig 2
Fig 3
Witnesses:
Inventor:

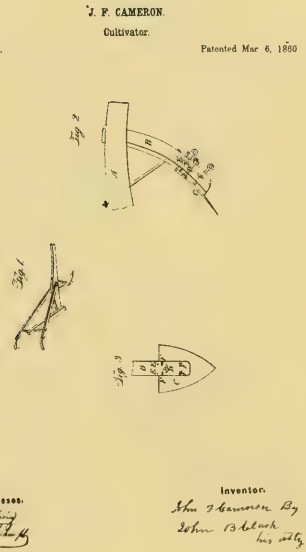

D. B. S. & I. Rogers
Cultivator Teeth
Patented Mar 9, 1858
Fig 1
Fig 2

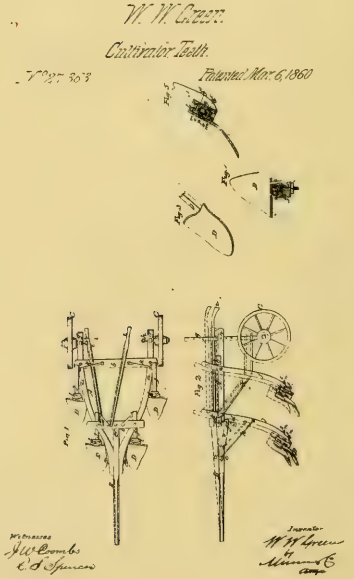
W. F. & W. H. Ford
Cultivator Teeth
Patented Feb 19, 1859


C. Aspinwall
Cultivator Teeth
Patented Jan 26, 1858
Fig 1
Fig 2
Witnesses
Inventor


A. Sanders.
Cultivator Tooth.
No. 26,207
Patented Nov 29 1859
Fig 3
Fig 2
Fig 1


G. C. Aiken.
Cultivator Tooth.
No 27,092.
Patented Feb 14, 1860.
Fig 2.
Fig 3
Fig 1
Witnesses:
John Baker
Amasa C Baker
Inventor
Geo C. Aiken

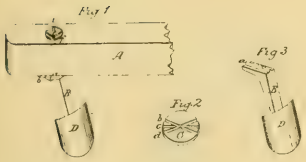

J. F. CAMERON.
Cultivator.
No. 27,347.
Patented Mar 6, 1860
Fig 2
Fig 1
Fig 3
Witnesses.
Inventor.
John F Cameron By
John B Black
his atty


W. W. Green.
Cultivator Tooth.
No 27,303
Patented Mar 6, 1860
Fig 5
Fig 4
Fig 3
Fig 1
Fig 2
Witnesses
H. W. Coombs
E. S. Spencer
Inventor
W. W. Green
by
Munn & Co
Attys

H. B. Hammon.

Cultivator Teeth.

No. 27,797 Patented Apr. 10, 1860.



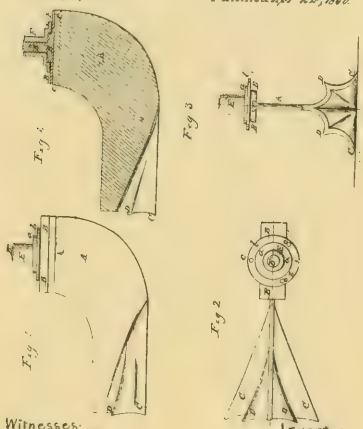
Witnesses
Wm. H. Hand.
Jacob Hammond.

Inventor
Hiram B. Hammon.

F. C. Robin.

Cultivator Teeth.

No. 27,956 Patented Apr. 24, 1860.



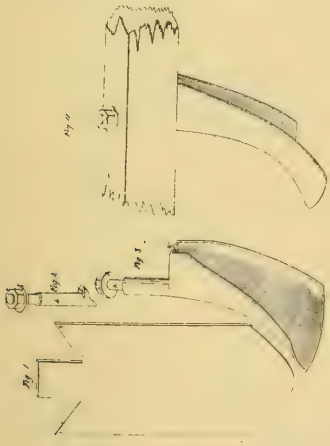
Witnesses.
John Dumphelm
H. Mudwenell

Inventor
Geo. E. Stetson
By his Attorney
Thos. H. Dodge

L. P. Ryan.

Cultivator Teeth.

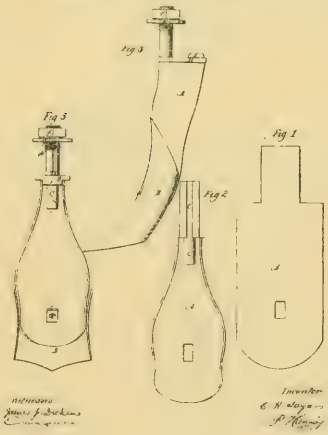
No. 28,198 Patented May 8, 1860.



C. H. Sayre.

Cultivator Teeth.

No. 28,750 Patented Jun. 19, 1860.



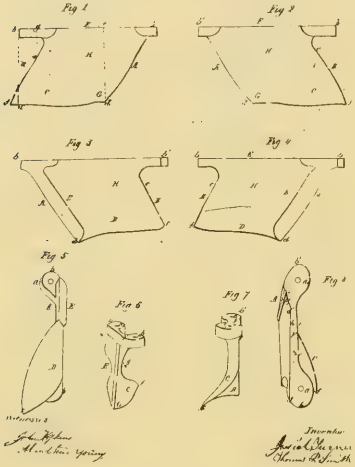
Witnesses
James J. Jackson
Chas. Sayre

Inventor
C. H. Sayre
J. P. Kenney

Turner & Smith

Cultivator Teeth.

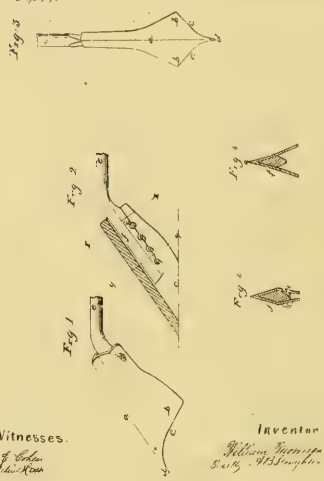
No. 29,944. Patented Jun. 26, 1860.



W. Morrison.

Cultivator Teeth.

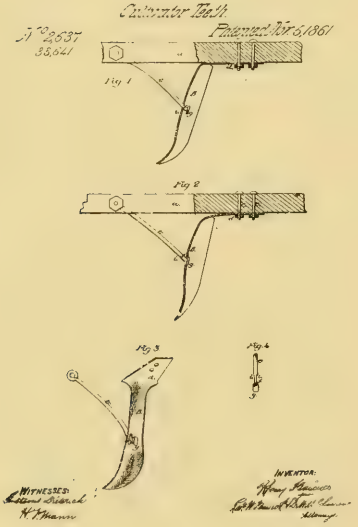
No. 32,073. 32,077. Patented Apr. 16, 1861.



H. Francisco

Cultivator Teeth

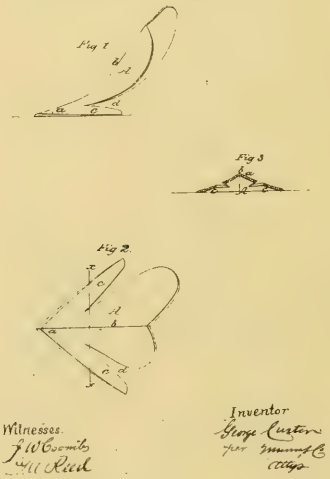
No. 32,637. 33,621 Patented Nov. 5, 1861

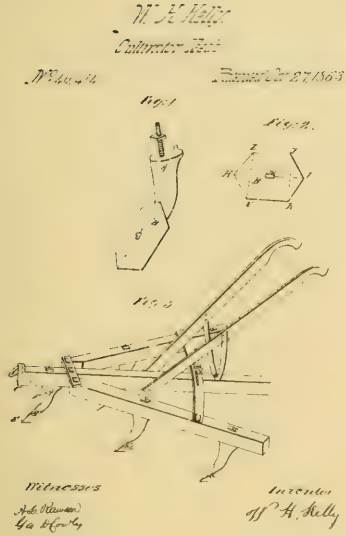


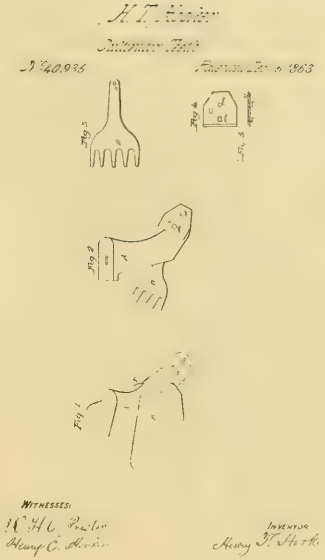
C. Custer.

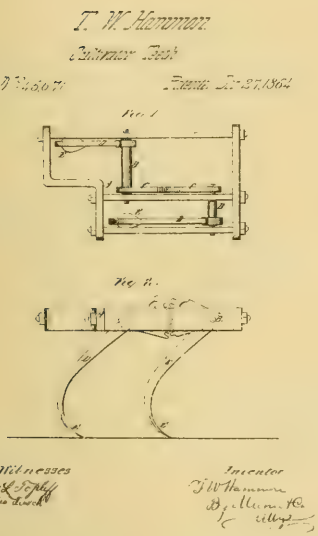
Cultivator Teeth.

No. 37,071. Patented Jan. 2, 1862.




W. H. Kelly
Cultivator Teeth
Patented Oct 27 1863
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
W. H. Kelly


H. T. Hooker
Cultivator Teeth
No 40,935
Fig. 5
Fig. 4
Fig. 3
Fig. 1
Witnesses
Inventor
Henry T. Hooker


T. W. Hammon
Cultivator Teeth
Patented Oct 27 1864
Fig. 1
Fig. 2
Witnesses
Inventor
T. W. Hammon

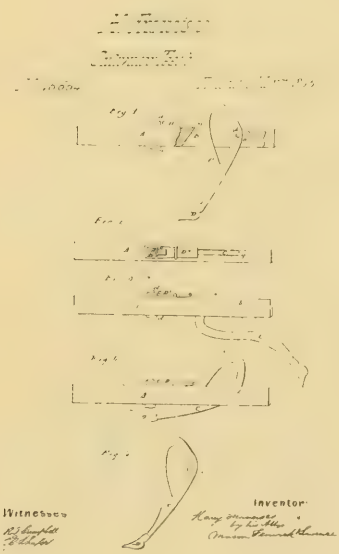
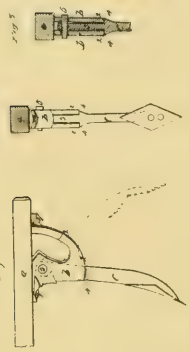


Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Witnesses
Inventor

Fowler & Bacon.

Cultivator Teeth.

No. 47,008. Patented Mar 28, 1865.



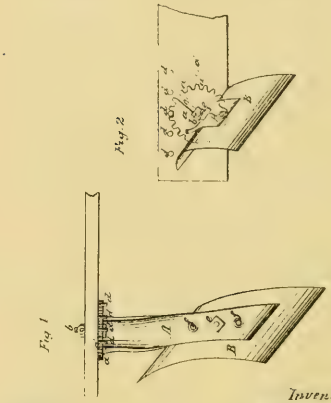
Witnesses
Charles H. Lucas
Henry P. Ashly

Inventor
Joseph Fowler
F. M. Bacon

H. Ingraham.

Cultivator Teeth.

No. 51,065. Patented Nov 21, 1866.



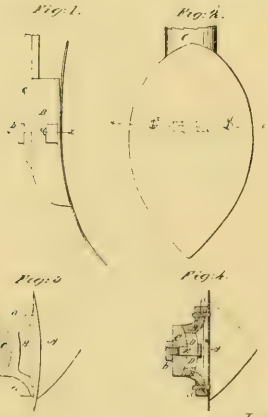
Witnesses
William Ellis
J. P. Blake

Inventor
Hanford Ingraham
By his Attorney
Gilbert B. Conklin

J. L. Fountain.

Cultivator Teeth.

No. 54,622. Patented May 8, 1866.



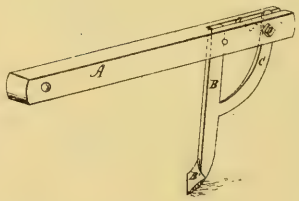
Witnesses
Holmes
W. McClellan

Inventor
J. Fountain

J. S. & I. Rowell.

Cultivator,

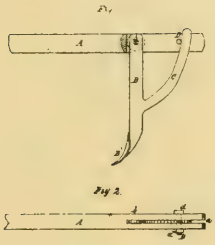
No. 56,102, Patented July 3, 1866.



Witnesses
H. F. Hall
C. W. Betts

Inventor
J. S. Rowell
& I. Rowell
By Munn & Co.
Attorneys

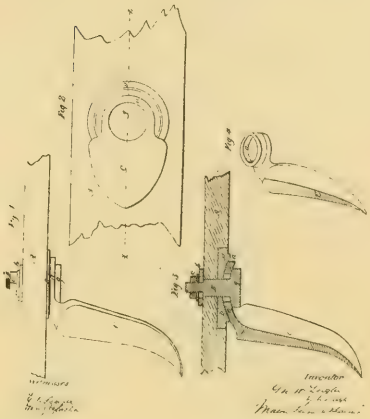
J. S. & I. Ronell
Cultivator.
No. 2909 Reissued Mar. 31, 1868



Witnesses
John C. Hoyt
Chas. A. Potter

Inventors
J. S. & I. Ronell
By Munn & Co.
Attorneys

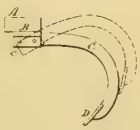
G. W. Leigh.
Cultivator Teeth
No. 58,533 Patented Oct. 2, 1866



Witnesses
H. C. Fenton
Geo. H. Fenton

Inventor
G. W. Leigh
By H. T. Fenton
Attorney

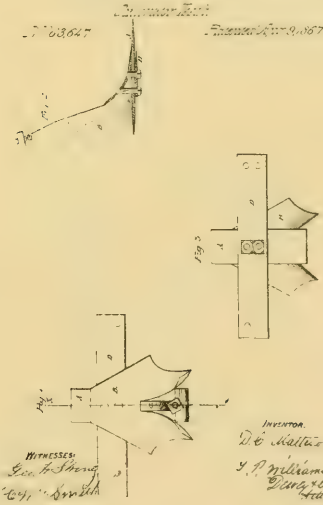
J. C. Hoffeditz.
Cultivator Teeth.
No. 60,893. Patented Jan. 1, 1867.



Witnesses
Thomas J. Hurdle
George M. Rothwell

Inventor
J. C. Hoffeditz
by Munn & Co.
Attys.

Matteson & Williamson.
Cultivator Teeth
No. 63,647 Patented Apr. 9, 1867



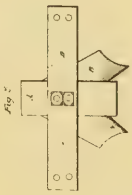
Witnesses:
Geo. H. Strong
Geo. H. Smith

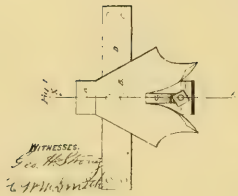
Inventor.
D. C. Matteson
J. P. Williamson.
Munn & Co.
Attorneys

Matteson & Williamson.

Cultivator Teeth.

No. 23,297. Patented Mar. 26, 1868.





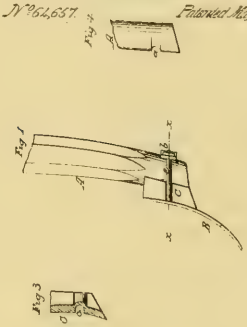
Witnesses.
Geo. H. Strong
A. W. Smith

Inventor.
D. B. Matteson
J. P. Williamson
By their Attorneys

A. Friberg.

Cultivator Teeth.

No. 64,657. Patented May 14, 1867.



Witnesses.
P. J. Dodge.
H. B. Munn

Inventor
Andrew Friberg
By W. C. Dodge
Atty.

E. SEWARD.

Cultivator-Teeth.

No. 67,456. Patented Aug. 6, 1867

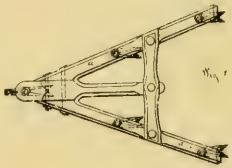
Witnesses.
W. P. Peck
A. L. Peck

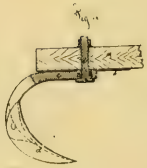
Inventor.
Elias Seward
by
W. P. Peck
his atty

E. F. Nisert,

Cultivator Teeth.

No. 68,460. Patented Sept. 3, 1867.

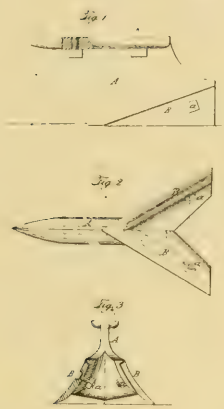




Witnesses.
Geo. D. Walker
Geo. T. Sanderson

E. F. Nisert
By L. P. Bigelow
Atty

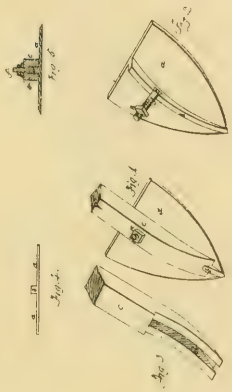
WEST & PAUL.
Cultivator-Teeth.
No. 69,731. Patented Oct. 8, 1867.



Witnesses:
J. Alsop Fraser
Wm Irwin

Inventor,
R. West.
H. F. Paul.
Per Munn & Co
Attys

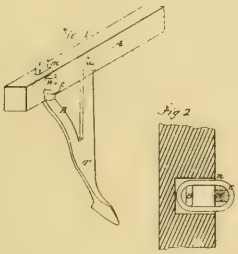
L. Rogers.
Cultivator Teeth.
No. 74,004. Patented Feb. 4, 1868.



Witnesses.
W. D. Lewis
W. H. Cushing, by his attorneys Bakewell & Kirby

Inventor,
Lyman Rogers

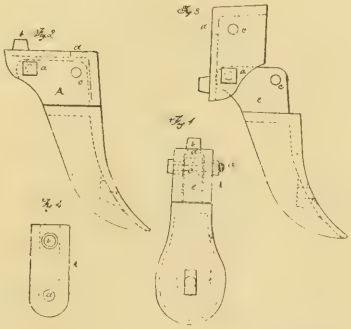
Lorth & Howe.
Cultivator-Tooth
No. 75436 Patented Mar. 10, 1868



Witnesses.
G. W. Munn
C. A. Pettit

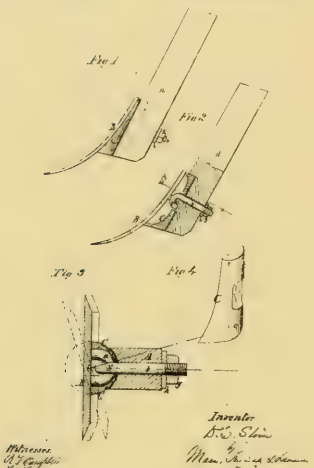
Inventor,
W. H. Lorth & J. S. Howe
Per Munn & Co
Attorneys

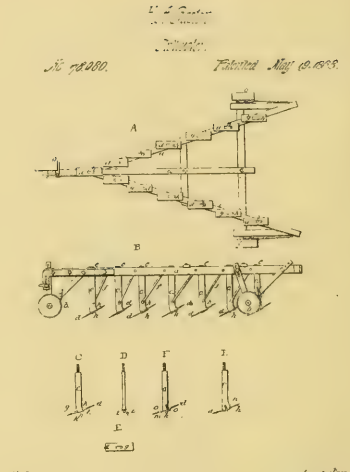
J. D. De Turk.
Cultivator-Teeth.
No. 75669 Patented Mar. 17, 1868

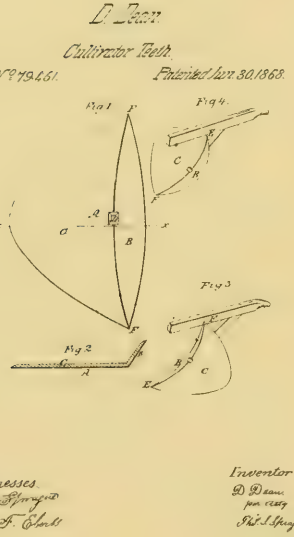


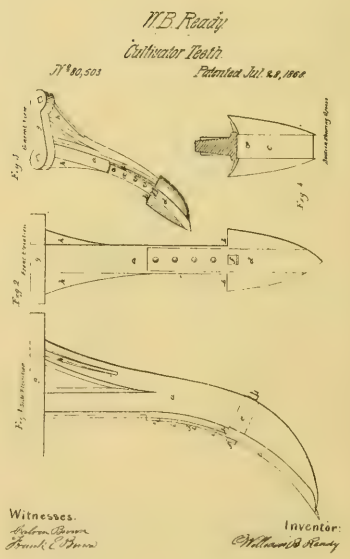
Witnesses
Arthur H. Chilton
C. H. Shaw

Inventor
J. D. De Turk


Cultivator Teeth.
Patented Apr. 14. 1868.
Fig 1
Fig 2
Fig 3
Fig 4
Inventor
Witnesses


Patented May 19. 1868.
A
B
C
D
E
Witnesses
Inventor

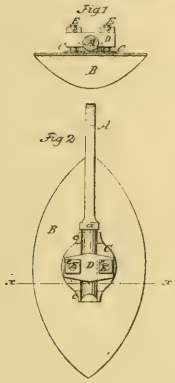

D. Dean
Cultivator Teeth.
Patented Jan. 30. 1868.
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses.
Inventor


M. B. Ready
Cultivator Teeth.
Patented Jul. 28, 1868
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses.
Inventor:

B. F. McCollester.

Cultivator Teeth.

No. 81,188. Patented Aug. 18, 1868.



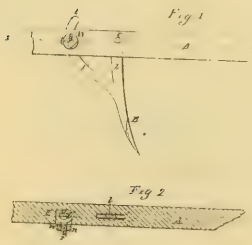
Witnesses
Chas. d Potter
John C. Simon

Inventor
B. F. McCollester
Alex. Hall
Attorney

Lauth & Kowe,

Cultivator Teeth.

No. 89,183. Patented Sept. 22, 1868.



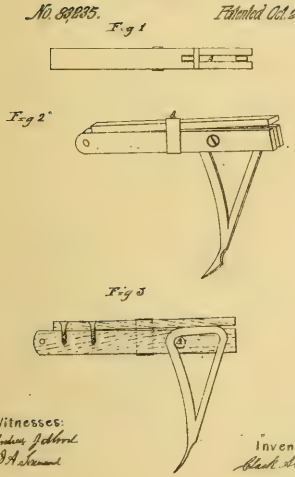
Witnesses:
C. A. Rice
W. M. Ellsworth

Inventors:
Mathias Lauth
Wm. Kowe
Alex. Hall & Co.
Attorneys

C. Allward.

Cultivator Teeth

No. 89,835. Patented Oct. 20, 1868.



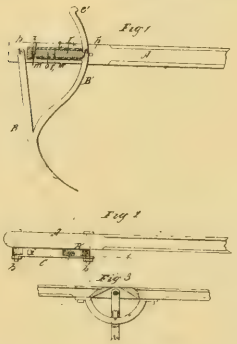
Witnesses:
Andrew Gebhard
O. A. Howard

Inventor
Charles Allward

C. W. Van Brunt.

Cultivator.

No. 86,261. Patented Jan. 26, 1869.



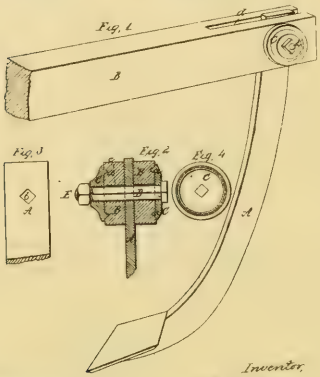
Witnesses.
James M. Bailey
Kirven Bakker

Inventor
C. W. Van Brunt

W. M. Hurlbert.

Cultivator Teeth.

No. 86,306. Patented Jan 26, 1869.



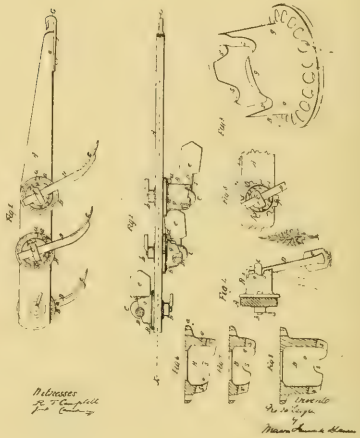
Witnesses.
S. T. Dodge
L. Hacker

Inventor,
Wm. M. Hurlbert
by Dodge & Munn
Attys.

G. W. Deigler.

Cultivator

No. 86,740. Patented Feb 9, 1869



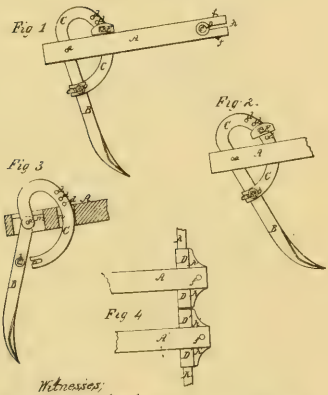
Witnesses
F. T. Campbell
E. G. Ewing

Inventor
G. W. Deigler
Munn & Co. Attys.

J. Harris.

Cultivator.

No. 87,101. Patented Feb 23, 1869.



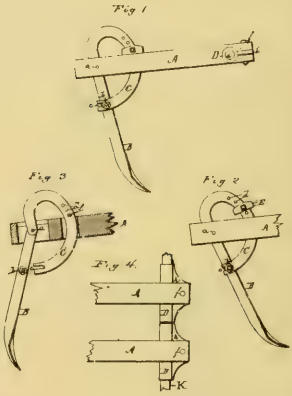
Witnesses,
Sylvanus D. Locke
Obed. Dann

Inventor,
James Harris

JAMES HARRIS.

Improvement in Cultivators

No. 4,812. Reissued March 19, 1872.



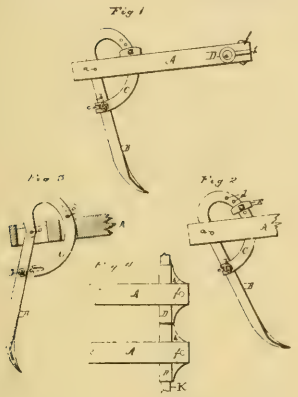
Witnesses.
C. F. Brown
R. W. Corey

Inventor
James Harris by
H. W. Pendle. Atty.

JAMES HARRIS.

Improvement in Cultivators.

No. 4,813. Reissued March 19, 1872.



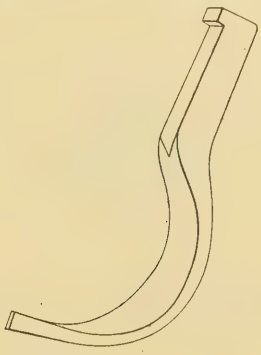
Witnesses
E. F. Brown
Rudolph Daey

Inventor
James Harris by
H. W. Beadle, atty.

E. L. Freeman.

Cultivator Teeth.

No 89,137. Patented Apr. 20, 1869.



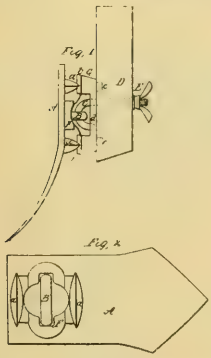
Witnesses.
Samuel Horner
Geo. W. Odell

Inventor
E. L. Freeman

B. S. Hyer.

Cultivator.

No 89,400 Patented Apr 27, 1869.



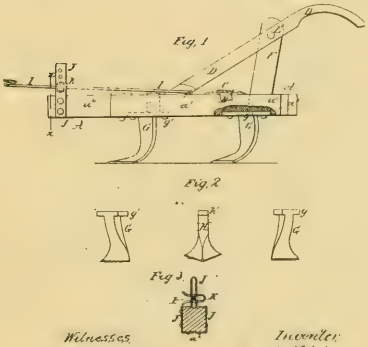
Witnesses.
Geo. J. Roney
W. A. Simms

Inventor
Benjamin S. Hyers

J. B. Moody.

Cultivator.

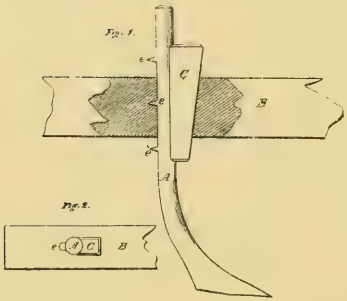
No 89,422 Patented Apr 27, 1869.



Witnesses.
Aug. C. Hogan
G. C. Otton

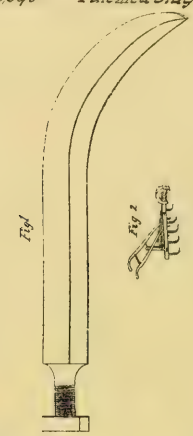
Inventor:
J. B. Moody
per Munn & Co
Attys.

B. Van Brackin.
Cultivator Teeth.
No. 92,910. Patented July 20, 1869.



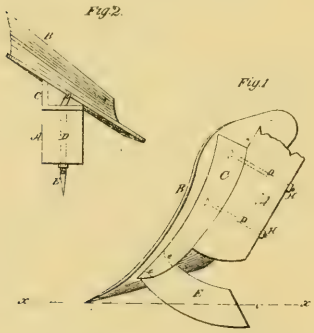
Witnesses. L. Hatter, Phil. S. Dodge.
Inventor. B. Van Brackin, by Dodge & Mann, Attys.

H. F. French.
Cultivator Teeth.
No. 93,695. Patented Aug. 17, 1869.



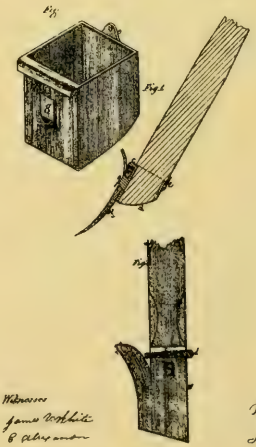
Witnesses. Franklin Parker, J. Edwards.
Inventor. Henry F. French.

Dryden & Turnbull.
Cultivator Teeth.
No. 94,425. Patented Sept. 14, 1869.

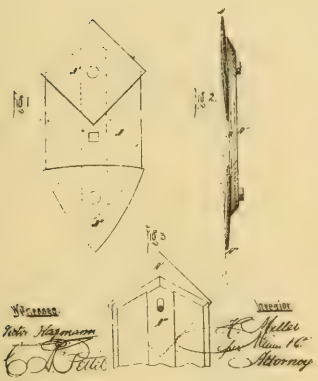


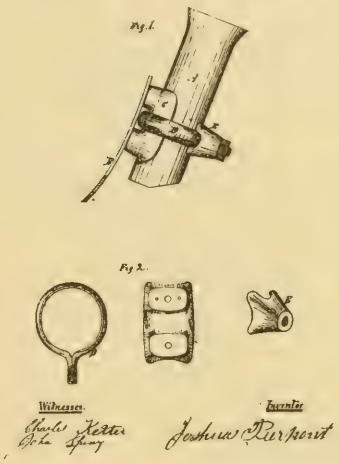
Witnesses. J. B. Harsh, Hiatt R. Richards.
Inventors. Jno. M. Turnbull, Wm. D. Dryden, per W. B. Richards, Atty.

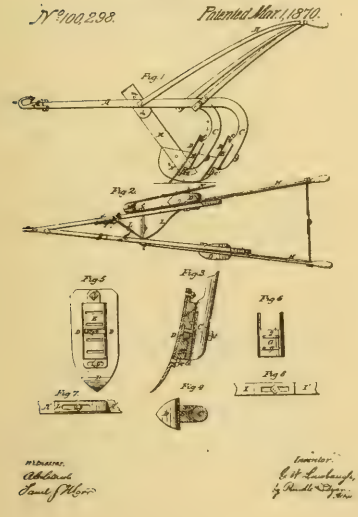
W. G. Beckwith,
Flour Sifter.
No. 96,383. Patented Nov. 2, 1869.

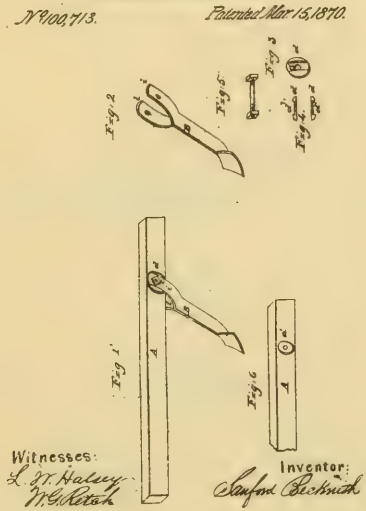


Witnesses. James Wolfe, C. Alexander.
Inventor. W. G. Beckwith, per S. T. Alexander, Atty.


F. Miller
Cultivator Teeth.
No. 97,313.
Patented Nov. 23, 1869.
Fig. 1.
Fig. 2.
Fig. 3.
Witnesses.
Peter Hasmann
Inventor
F. Miller
per Wm. H. C.
Attorney


J. Rupert,
Plow Fastening.
No. 98,702.
Patented Feb. 8, 1870.
Fig. 1.
Fig. 2.
Witnesses.
Charles Ketter
Inventor
Joshua Rupert


C. W. Landough.
Cultivator Teeth.
No. 100,298.
Patented Mar. 1, 1870.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Fig. 7
Fig. 8
Witnesses:
Inventor:


S. Beckwith.
Cultivator Teeth.
No. 100,713.
Patented Mar. 15, 1870.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Witnesses:
L. T. Haley
M. G. Ketch
Inventor:
Sanford Beckwith

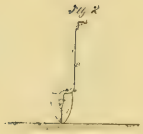
J. Fitz

Cultivator Tooth

No. 102,150. Patented Apr. 19 1870

Fig. 1

Fig. 2



Witnesses:
[illegible]
A. Chipfield

Inventor:
Geo. Perry
[illegible]
Atty

J. G. Miner,

Cultivator Tooth.

No. 104,754. Patented June 28. 1870.

Fig. 1

Fig. 2

Witnesses:
J. W. Flanagan
G. J. Weber

Inventor:
J. G. Miner
Per Wm. C. [illegible]
Attorneys.

J. Wagner Tool

No. 105,570 Patented July 19 1870

Fig. 1.

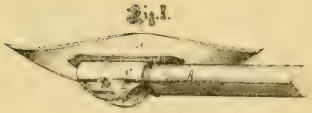


Fig. 2.

WITNESSES.
[illegible]
[illegible]

INVENTOR
[illegible]
[illegible]
[illegible]
[illegible]

J. Gerber.

Cultivator Teeth.

No. 106,478. Patented Aug. 16, 1870.

Fig. 1.

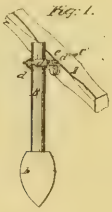
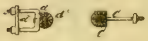
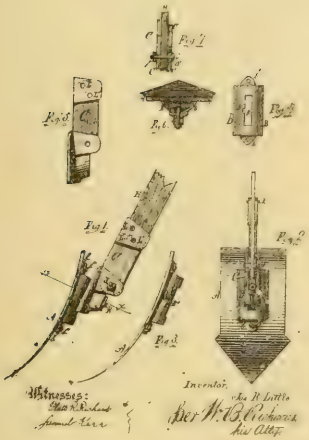


Fig. 2.



Witnesses
S. J. Rogers
[illegible]

Inventor
Jacob Gerber By
[illegible] Atty


J. R. Little,
Cultivator Teeth.
No. 107,060.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Witnesses:
Inventor,
J. R. Little
per W. B. Pickering
his Atty.

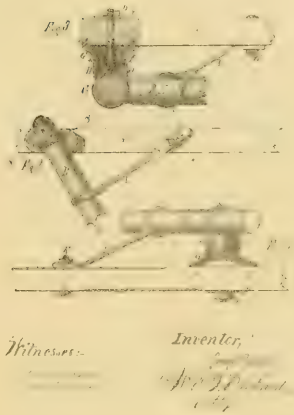
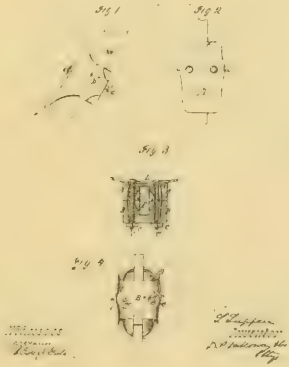
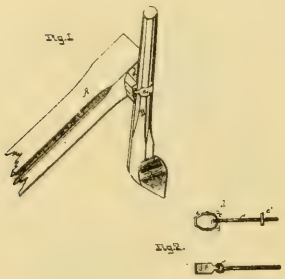


Fig. 3
Fig. 4
Witnesses:
Inventor,

L. Leffler,
Shovel Plow.
No. 108,918.
Patented Oct. 11, 1870.
Fig. 1
Fig. 2
Attest:
Inventor:


L. Leffler,
Shovel Plow.
No. 108,918.
Patented Oct. 11, 1870.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses:
Inventor:

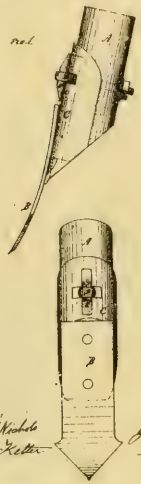
J. Gerber,
Cultivator Tooth
No. 108,471. Patented Oct. 18, 1870



Witnesses:
S. J. Rogers
H. R. Rice

Inventor
Julius Gerber
by Brandt Atty.

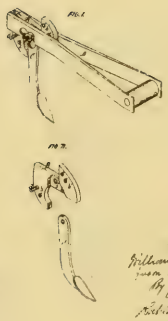
Stephen Tuttle,
Cultivator
No. 105,516. Patented Oct. 18, 1870



Witnesses:
Benson Nichols
Charles Keller

Inventor.
Stephen Tuttle
Sidney S. Tuttle

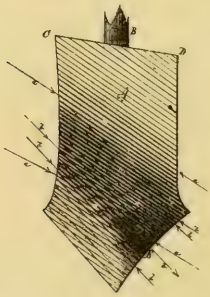
Markman & Hilliard,
Cultivator Tooth
No. 110,103. Patented Dec. 13, 1870



Witnesses.
John Hoffman
Edward Mott

Inventors
William Markman
Isaac Hilliard
by J. Isaac & Co
Attys
Rochester N.Y.

W. A. Dryden,
Cultivator Tooth.
No. 110,836. Patented Jan. 10, 1871.



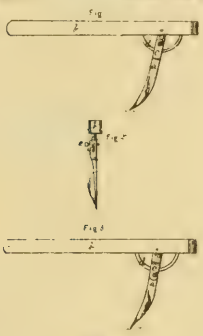
Witnesses
Geo. R. Richards
H. R. Bergen

Inventor,
W. A. Dryden,
by W. B. Richards
his Atty.

W. D. Strand.

Cultivator Teeth

No. 112850. Patented Mar. 21 1871.



Witnesses: Inventor: William C. Strand by Theodore Strange his Attorney

M. F. Lewth and O. H. Porter.

Cultivator-Teeth.

117092 Patented Jul. 18 1871

Witnesses: Inventor: M. F. Lewth O. H. Porter per Munn & Co. Attorneys.

D. F. DEL MAR'S

CULTIVATOR.

117524 Patented Aug 1 1871

Fig. 1.

Fig. 2.

Fig. 3.

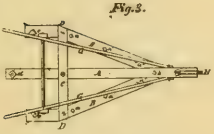
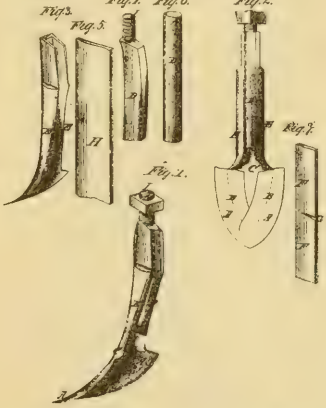


Fig. 4.

Attest. Inventor: D. F. Del Mar by his attorney

L. Daley. Cultivator Teeth.

118208 Patented Aug 22 1871



Witnesses: Inventor: L. Daley per Munn & Co. Attorneys.

In 2 Sheets. Sheet 1

Thomas F. Hamilton.

Improvement in Cultivators, Shovel-Plows, &c.

No. 118,362. Patented Aug. 22, 1871.

Witnesses. C. H. Poole. John R. Young

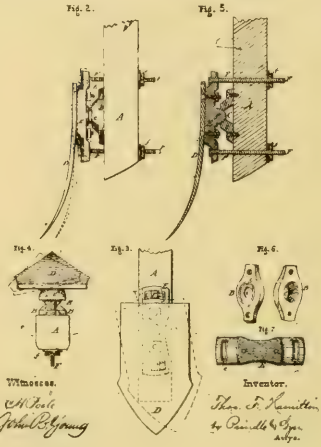
Inventor. Thos. F. Hamilton by Prindle & Dyer Attys.

In 2 Sheets. Sheet 2

Thomas F. Hamilton.

Improvement in Cultivators, Shovel-Plows, &c.

No. 118,362. Patented Aug. 22, 1871.



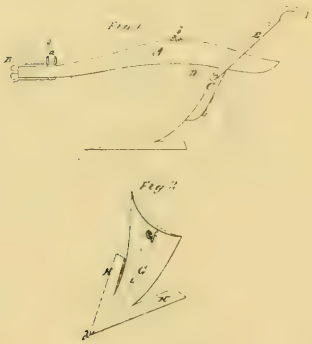
Witnesses. C. H. Poole. John R. Young

Inventor. Thos. F. Hamilton by Prindle & Dyer Attys.

SAMUEL SNIDER.

Improvement in Cultivators.

No. 120,789. Patented Nov. 7, 1871.



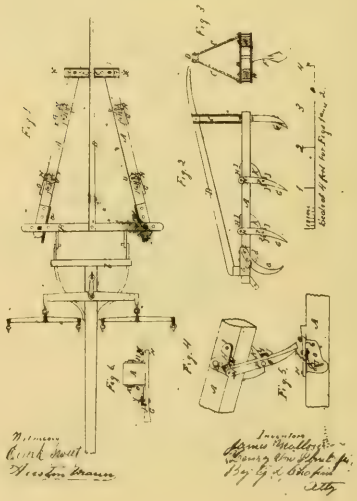
Witnesses. Jno. A. Kelly. J. B. White

Inventor. Samuel Snider. per M. Alexander Atty.

JAMES MALLON & HENRY VON PHUL, Jr.

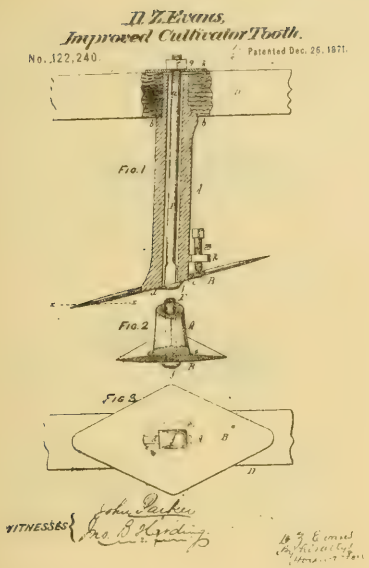
Improvement in Cultivators.

No. 121,794. Patented Dec. 12, 1871.



Witnesses. Cook Hall. Nicolas Kramer

Inventors. James Mallon. Henry Von Phul Jr. By Geo. H. Strong Atty.

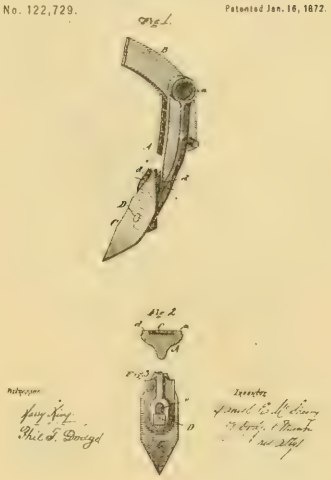


(133.)

D. E. McSHERRY.

Improvement in Grain Drills.

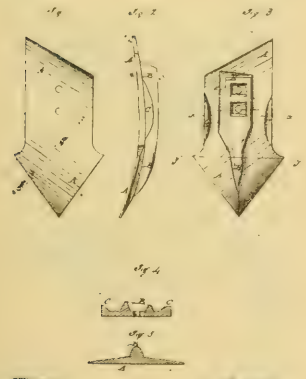
No. 122,729. Patented Jan. 16, 1872.



GEORGE H. SMITH.

Improvement in Shovel Plow.

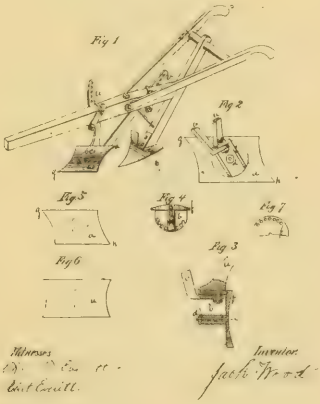
No. 125,494. Patented April 9, 1872.



JACK WOOD.

Improvement in Cultivators.

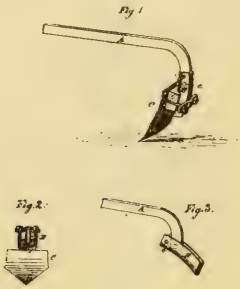
No. 125,872. Patented April 16, 1872.



A. FRIBERG.

Improvement in Cultivator

No. 127,757. Patented June 11, 1872.



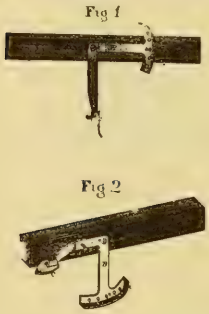
Witnesses:
F. E. Burchs
Wm. S. Dodge

Inventor:
A. Friberg
by Dodge & Mason
Attys

C. H. WATSON.

Improvement in Cultivators.

No. 128,686. Patented July 2, 1872.



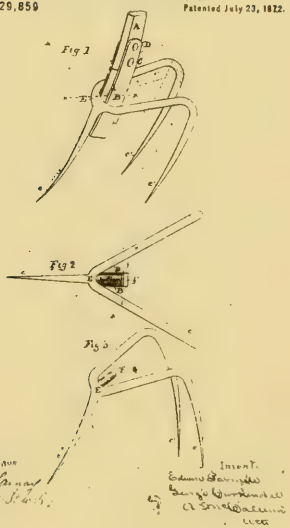
Witnesses.
F. A. Kilmann
Jas. D. Allen

Inventor.
Chas. H. Watson.

E. PARMELE & G. CURKENDALL.

Improvement in Cultivators.

No. 129,859 Patented July 23, 1872.



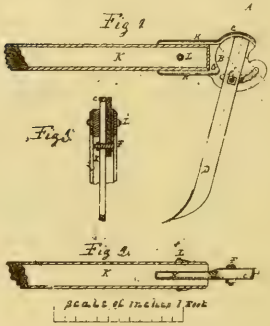
Witnesses
E. B. Mason
A. G. Smith

Invent.
Edwin Parmele
George Curkendall
A. Smith Dallas
Atty

H. L. GORHAM.

Improvement in Cultivators.

No. 131,818. Patented Oct. 1, 1872.



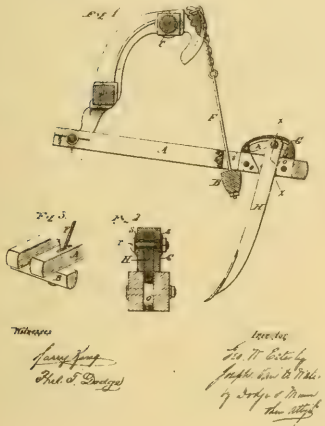
Witnesses
Jacob Bickel
H. H. Taylor

Inventor
Marquis L. Gorham

G. W. ESTERLY & J. VAN DE WATER.

Improvement in Cultivators.

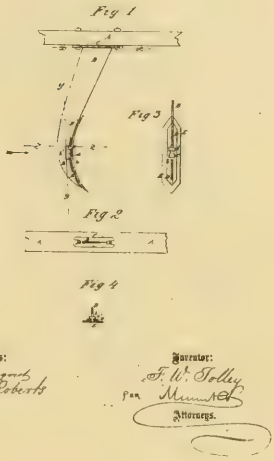
No. 131,861. Patented Oct. 1, 1872.



F. W. TOLLEY.

Cultivators.

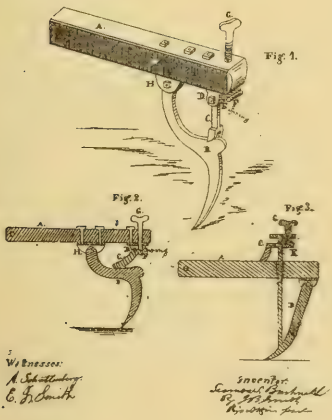
No. 134,443. Patented Dec. 31, 1872.



S. S. BUSHNELL.

Cultivators.

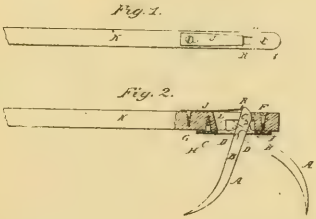
No. 134,728. Patented Jan. 14, 1873



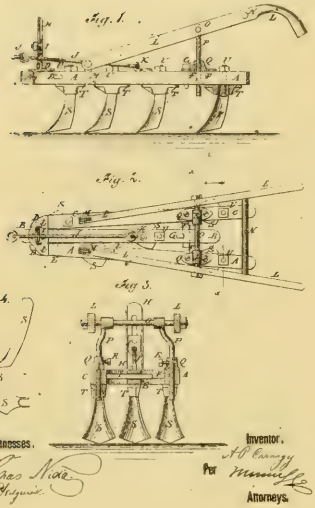
G. F. STROUD.

Cultivator Teeth.

No. 141,400. Patented July 29, 1873

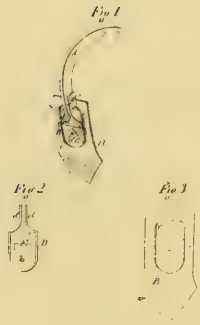


A. P. CARNAGY.
Cultivators.
No. 152,073. Patented June 16, 1874.

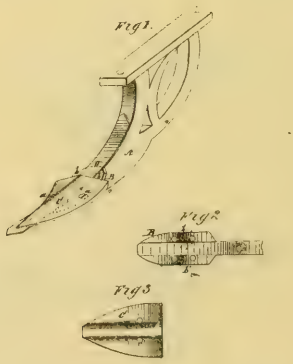


J. H. & J. W. THOMAS.
Seeding-Machines.
No. 152,706. Patented June 30, 1874.

W. HARTGROVE.
Cultivators.
No. 153,565. Patented July 28, 1874.



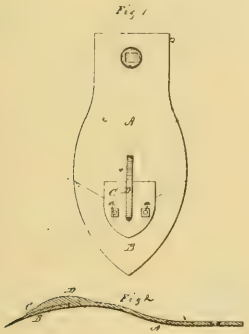
M. F. WHITE.
Plows.
No. 153,646. Patented July 28, 1874.



A. R. GRANBERRY & J. ELLIOTT.

Cultivator Teeth or Hoes.

No. 154,667. Patented Sept. 1, 1874.



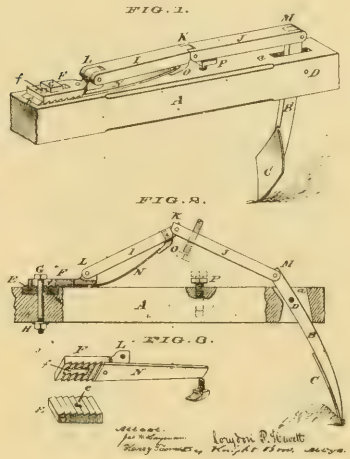
WITNESSES
E. M. Ward
C. L. Ewell.

INVENTOR.
Alfred R. Granberry
Joseph Elliott
per Shields & Helm
Attorneys

C. P. HEWETT.

Yielding Teeth for Seeders and Cultivators.

No. 158,081. Patented Dec. 22, 1874.



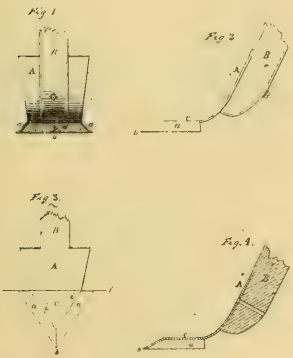
Witnesses
Henry Bowen Jr.
Knight Bros. Attys.

Inventor
Lewis P. Hewett

T. J. HOUSTON.

Cultivator-Shovels.

No. 158,375. Patented Jan. 5, 1875.



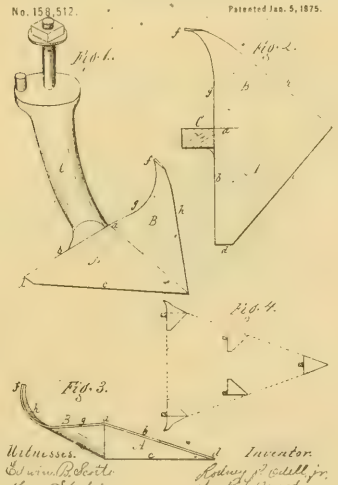
Witnesses
E. C. Anderson.
J. H. Burns

Inventor
Thos. J. Houston
by R. B. Burns Atty.

R. P. ODELL, Jr.

Cultivator-Teeth.

No. 158,512. Patented Jan. 5, 1875.



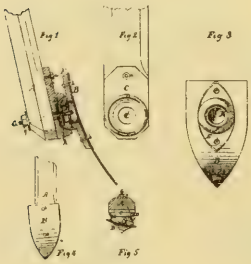
Witnesses.
Edwin R. Scott.
Louis Spahn.

Inventor.
Rodney P. Odell jr.
per R. F. Wright.
Atty.

E. CHILDREN

Coupling-Joints for Cultivator-Teeth.

No. 158,906. Patented Jan. 19, 1875



Witnesses:

Inventor
Edwin Children
by Munday & Evarts
Att'ys

E. LEONARD.

Grass Cultivator-Teeth.

No. 160,444 Patented March 2, 1874

Witnesses.

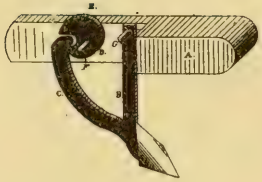
Inventor

Ezra Leonard
by Lauel Bond, Att'y

G. D. ROWELL.

Slip-Teeth for Seeder.

No 160,547. Patented March 9, 1875



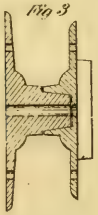
WITNESSES:

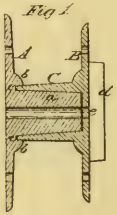
INVENTOR:

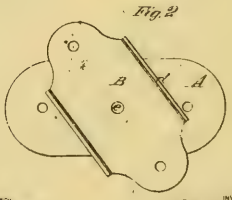
G. B. BRIMINGHAM.

Plow Standard Fastening.

No. 161,745. Patented April 6, 1875.





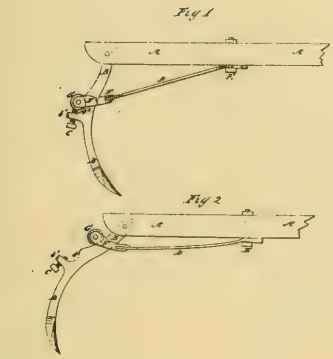


WITNESSES:

INVENTOR

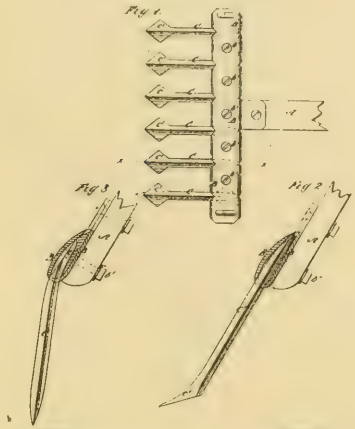
ATTORNEYS

J. FLYNN.
Cultivator Teeth.
No. 166,979. Patented Aug. 24, 1875.



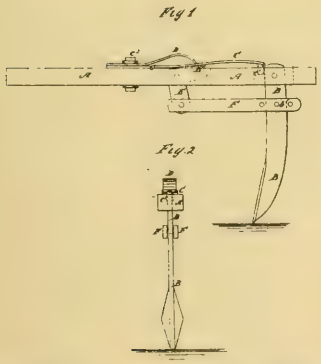
WITNESSES: E. Wolff, A. F. Terry
INVENTOR: John Flynn BY Munn & Co. ATTORNEYS.

I. P. PICKERING.
Combined Cultivator and Harrow.
No. 168,181. Patented Sept. 28, 1875.



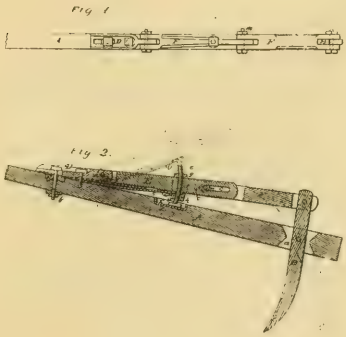
WITNESSES: E. Wolff, Alex F. Roberts
INVENTOR: J. P. Pickering BY Munn & Co. ATTORNEYS.

J. HARRIS.
SELF-LOCKING CULTIVATOR TEETH.
No. 170,627. Patented Nov. 30, 1875.



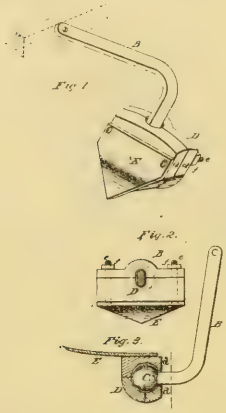
WITNESSES: E. Wolff, A. F. Terry
INVENTOR: John Harris BY Munn & Co. ATTORNEYS.

C. P. HEWETT.
YIELDING TEETH FOR SEEDERS AND CULTIVATORS.
No. 171,566. Patented Dec. 28, 1875.



WITNESSES: William Anderson, E. H. Butler
INVENTOR: Cornelius P. Hewett BY Chipman & Frost & Co. ATTORNEYS

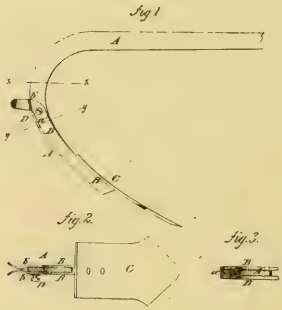
J. C. BANNIGAN.
CULTIVATOR-TEETH.
No. 172,373. Patented Jan. 18, 1876.



WITNESSES:
A. E. Norris
J. E. Barnes

INVENTOR
J. C. Bannigan
By Brown & Allen
Att'ys.

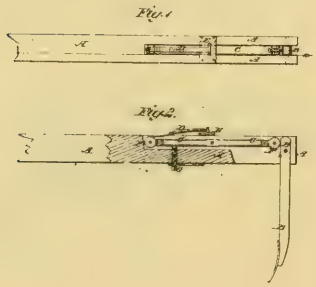
M. K. WHEAT.
SPRING-LOCKS FOR PLOWS.
No. 173,873. Patented Feb. 22, 1876.



WITNESSES:
John Goethals
Alfred Lucett

INVENTOR:
M. K. Wheat
BY
Munn & Co
ATTORNEYS.

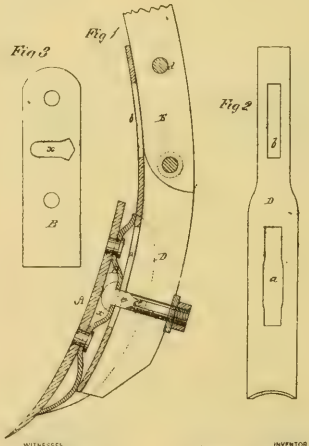
R. F. BILLINGS.
SEEDER AND CULTIVATOR TEETH.
No. 175,649. Patented April 4, 1876.



WITNESSES:
John Goethals

INVENTOR:
R. F. Billings
BY
Munn & Co
ATTORNEYS.

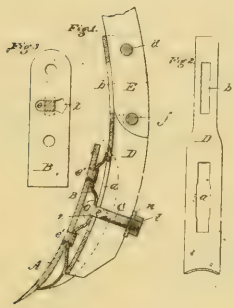
E. P. LYNCH & E. A. WRIGHT.
CULTIVATOR.
No. 175,721. Patented April 4, 1876.



WITNESSES:
Mary S. Otty
Geo. H. Lemon

INVENTORS
Edward P. Lynch
Edgar A. Wright
Munn & Co
ATTORNEYS.

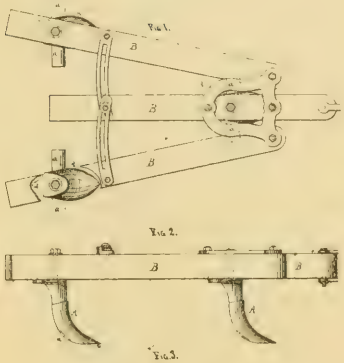
E. P. LYNCH & E. A. WRIGHT.
CULTIVATORS.
No. 7,250. Released Aug. 1, 1876



Witnesses
Thomas J. Mitchell
Wm. H. Bridge

Inventor
E. P. Lynch & E. A. Wright
by Dodge & Sedgwick
Attys.

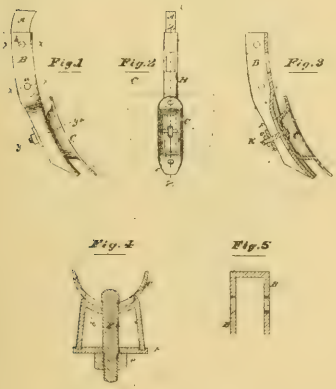
J. MITCHELL.
CULTIVATOR-TEETH.
No. 178,190. Patented May 30, 1876.



WITNESSES.
E. H. Woodward
Jr. Drake.

Joshua Mitchell
INVENTOR. BY
J. R. Drake
atty.

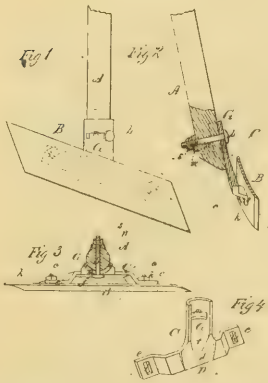
C. P. BUCKINGHAM.
CULTIVATOR
No. 183,121. Patented Oct. 10, 1876.



Attorney
W. A. Bauer
C. R. Morris

Inventor
Calvin P. Buckingham
By C. Lynch Taylor
Attorneys

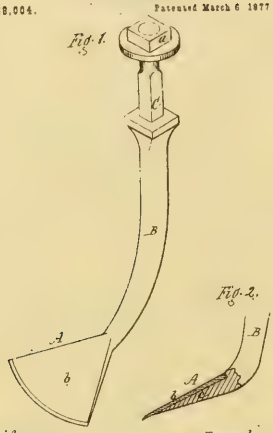
J. E. WILKINSON.
PLOWS.
No. 185,152. Patented Dec. 5, 1876.



WITNESSES
Wilhelm Anderson
Frances J. Allen

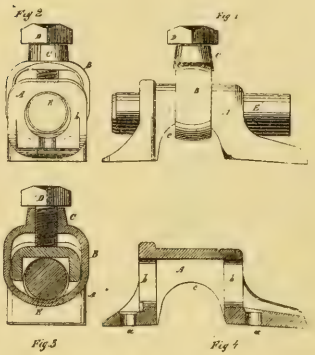
INVENTOR
James E. Wilkinson
by E. H. Anderson
ATTORNEY

J. R. COLT.
CULTIVATOR TEETH.
No. 189,004. Patented March 6 1877



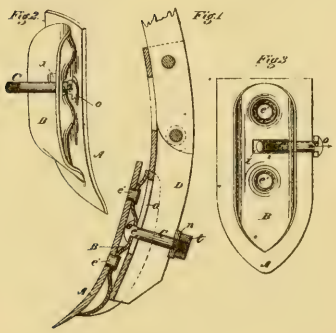
Witnesses.
Inventor.
Joseph R. Colt
per R. H. Cogswell
Atty.

R. ELWOOD.
ATTACHING CULTIVATOR SHOVELS
No. 189,550. Patented April 17 1877



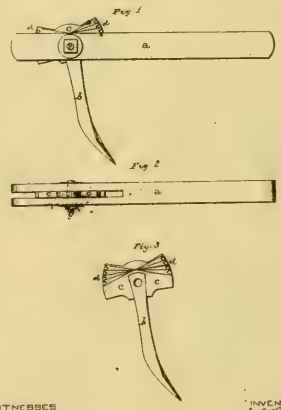
Witnesses
Inventor
Reuben Elwood.
By Mitt. & Bond Atys

E. P. LYNCH & E. A. WRIGHT.
CULTIVATOR.
No. 191,451. Patented May 29, 1877.



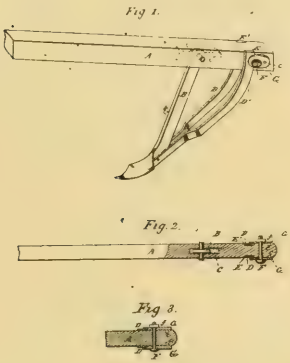
Witnesses:
Inventors:
E. P. Lynch
E. A. Wright
by Bodgerdorn
Attys

G. D. ROWELL.
CULTIVATOR-TEETH.
No. 192,390. Patented June 26, 1877.



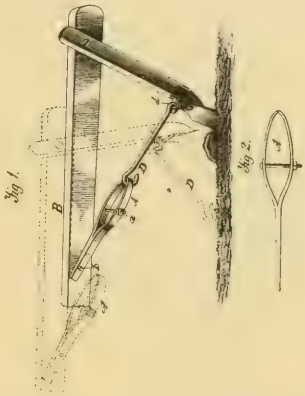
WITNESSES
INVENTOR
G. D. Rowell
for
F. W. Bond
Atty

B. TOWN.
DEVICES FOR BRACING CULTIVATOR-TEETH.
No. 193,735. Patented July 31, 1877.



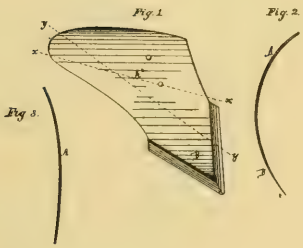
Witnesses
Inventor.
Byron Town
by Schutt & Allen
attys

S. PECK.
SAFETY-CLAMP AND HOOK FOR CULTIVATORS.
No. 194,310. Patented Aug. 21, 1877.



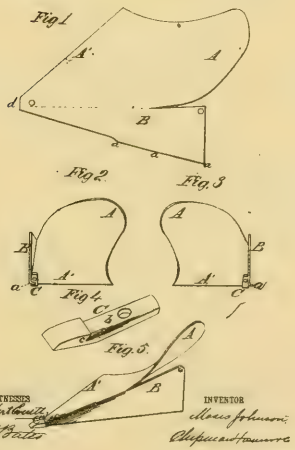
Witnesses.
A. Rappaport
Henry C. Swan
Inventor:
Sanford Peck
per Isaac N. Arnold
atty.

J. H. OWEN.
CULTIVATOR-BLADES.
No. 194,531. Patented Aug. 28, 1877.



Witnesses.
Inventor.
John H. Owen

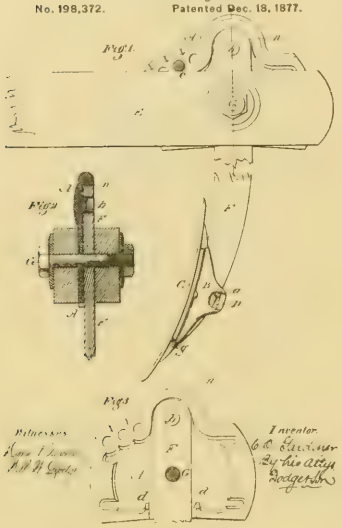
M. JOHNSON.
Cultivator-Tooth.
No. 197,638. Patented Nov. 27, 1877



WITNESSES
INVENTOR
Moses Johnson
Chipman & Hanaford
Attorneys

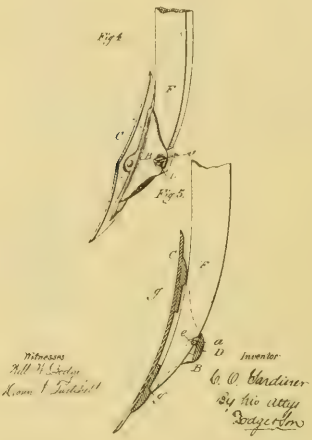
2 Sheets—Sheet 1.

C. O. GARDINER.
Cultivator and Seeding Machine.
No. 198,372. Patented Dec. 18, 1877.

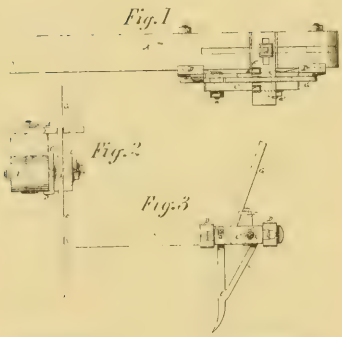


2 Sheets—Sheet 2.

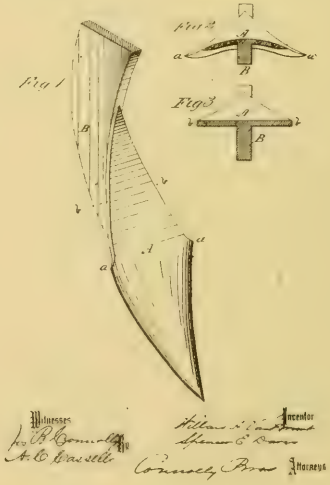
C. O. GARDINER.
Cultivator and Seeding Machine.
No. 198,372. Patented Dec. 18, 1877.



S. H. FORD.
Cultivator
No. 199,634. Patented Jan. 29, 1878.

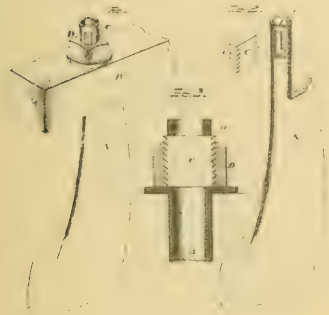


W. A. VAN BRUNT & S. E. DAVIS.
Cultivator-Tooth.
No. 201,304. Patented March 12, 1878.



H. CARSON.
Cultivator Teeth.

No. 203,417. Patented May 7, 1878.

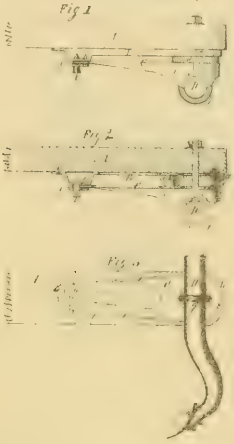


WITNESSES
Ed. S. Stillinglow
A. M. Bright.

INVENTOR
Hugh Carson,
By Leggett & Leggett.

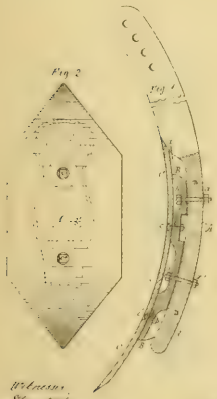
F. T. BERTRAND.
Cultivator.

No. 205,828. Patented July 9, 1878



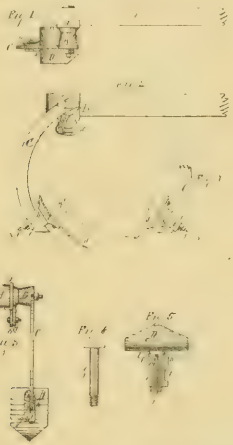
W. H. DICKEY.
Cultivator.

No. 208,576. Patented Oct. 1, 1878.



W. A. KNOWLTON.
Cultivator.

No. 211,098. Patented Jan. 7, 1879.

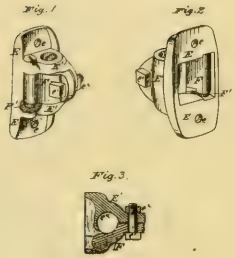


Witnesses
A. C. Bifel
L. G. Somrugs

Inventor
William A. Knowlton
By Jacob Wood
Atty.

W. H. DICKEY.
Cultivator.

No. 214,373. Patented April 15, 1879.

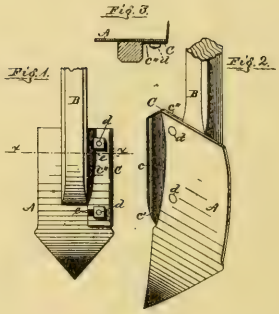


Witnesses:
H. N. Bliss
John S. Barker

Inventor:
William H. Dickey
by H. H. Bond & Son
Atty

F. B. KENDALL.
Cultivator.

No. 214,825. Patented April 29, 1879.

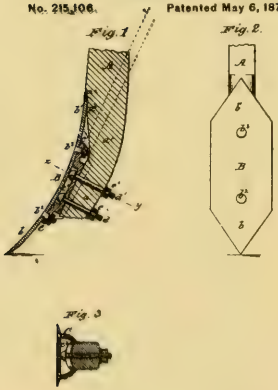


Witnesses:
M. H. Bennett
C. R. Richards

Inventor:
Francis B. Kendall
(By) C. R. Richards
Atty.

W. H. DICKEY.
Cultivator.

No. 215,106. Patented May 6, 1879.

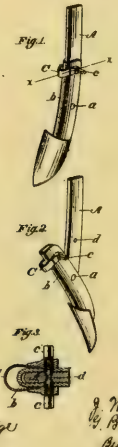


Witnesses
W. B. Mason
John S. Barker

Inventor
William H. Dickey
by H. H. Bond & Son
Atty

J. W. LAFFERTY & G. B. BROWN.
Drill-Teeth.

No. 220,157. Patented Sept. 30, 1879.

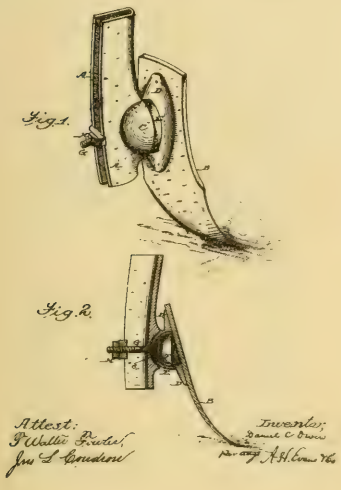


Witnesses:
Wm. F. Mitchell
William M. Dodge

Inventor:
J. W. Lafferty
G. B. Brown
By Dodge & Son
Attys

D. C. OWEN.
Coupling-Joint for Cultivator-Teeth.

No. 223,752. Patented Jan. 20, 1880.



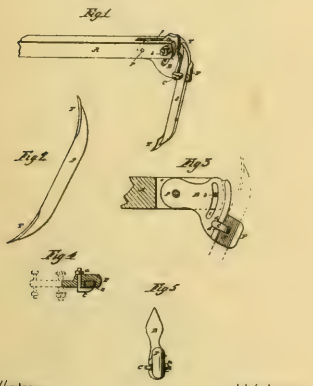
E. R. McCALL.
Cultivator-Teeth.

No. 226,531. Patented April 13, 1880.

(No Model.)

J. S. ROWELL.
Cultivator Teeth.

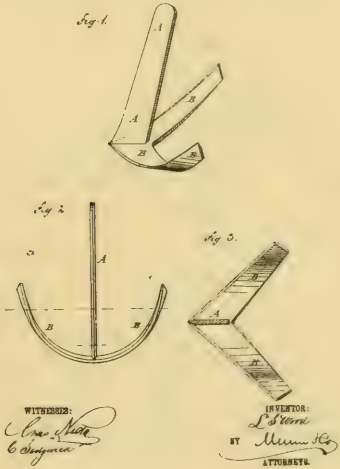
No. 232,850. Patented Oct. 5, 1880.



(No Model.)

L. S. WOOD.
Cultivator Tooth.

No. 233,058. Patented Oct. 5, 1880.

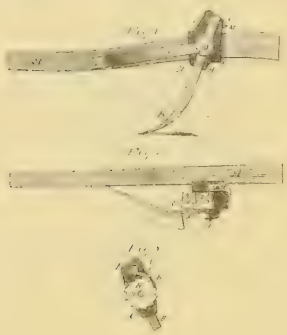


(Model)

C. M. STEVENS.

Means for Attaching Cultivator Teeth.

No. 236,377. Patented Jan. 4, 1881.



WITNESSES
Thos. O. Maxi
James J. Shelby.

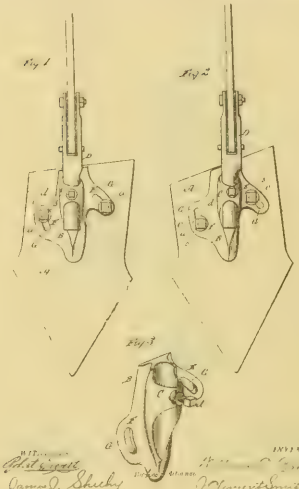
INVENTOR
Clark M. Stevens
by Anderson & Smith
his ATTORNEYS

(Model)

W. P. BROWN.

Plow Attachment.

No. 238,846. Patented March 15, 1881.



WITNESSES
Phil. Dodge
James J. Shelby.

INVENTOR
W. P. Brown
J. Nemeriah Smith.

W. WORKMAN & J. HITCHCOCK,

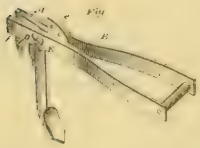
and HITCHCOCK assignor to said WORKMAN

Friction Block for Attaching Cultivator and other Teeth.

No. 110,103 Patented Dec. 13, 1871.

No. 9,638 Reissued April 5, 1881.

See page 525.



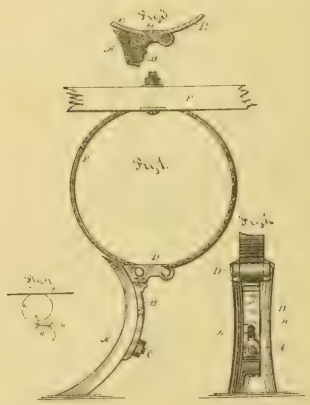
Attest
Geo. W. Fowler
J. A. R. Thorp

Inventors
William Workman
Jason Hitchcock.
by Edmund L. Norris
Atty

D. O. EVEREST.

Cultivator

No. 239,947. Patented April 12, 1881.



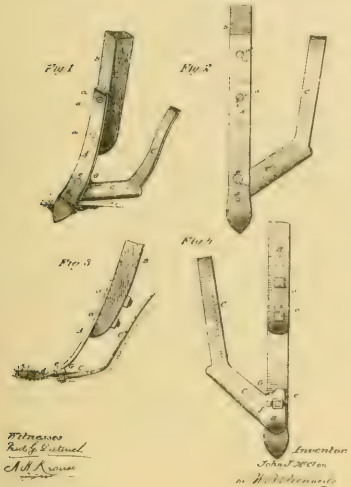
WITNESSES
Frank M. Huber
N. Hurd Jr.

INVENTOR
D. O. Everest.
By Dewey & Co. Attorneys
ATTORNEY

(No Model.)

J. J. McCLEN.
Cultivator Tooth.

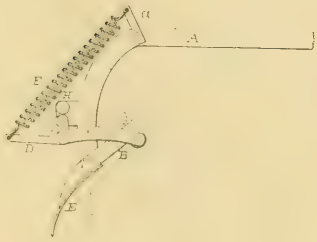
No. 240,159. Patented April 12, 1881.



(Model.)

R. A. BURNETT.
Plow.

No. 242,266. Patented May 31, 1881.



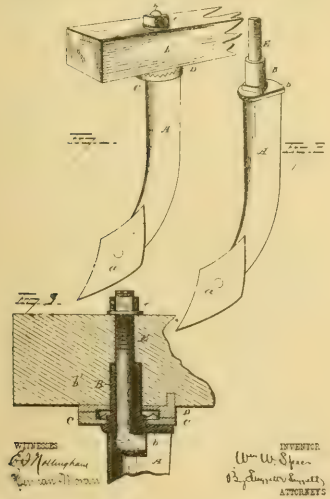
WITNESSES:
W. G. Aylesworth
Jno. W. Swanly

INVENTOR
Robert A. Burnett
BY R. Pickering
ATTORNEY

(Model.)

W. W. SPEER.
Cultivator Tooth.

No. 242,390. Patented May 31, 1881.



WITNESSES:
E. D. Mellinghaus

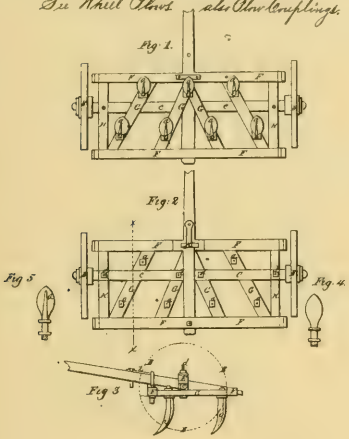
INVENTOR
Wm. W. Speer
ATTORNEYS

N. Ide.

Wheel Cultivator.

No. 4,459. Patented Nov. 18, 1846.

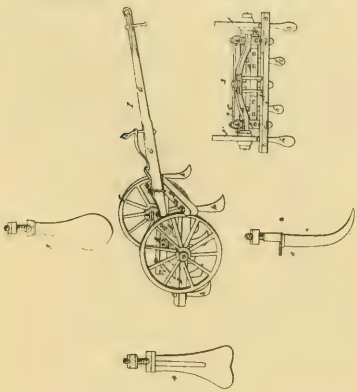
See Wheel Plows also Plow Coulters.



J. Patterson.

Wheel Cultivator.

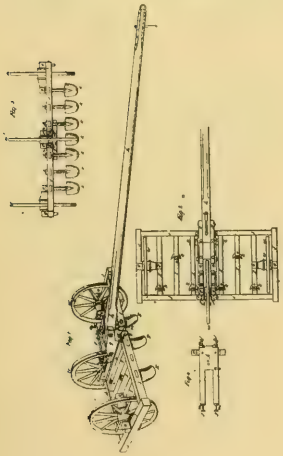
No. 5,075 Patented Apr. 17, 1847.



A. T. Odell.

Wheel Cultivator

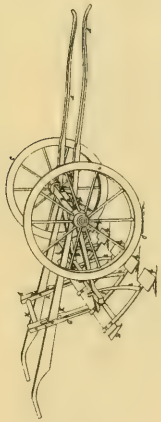
No. 5,195. Patented Jul. 17, 1847.

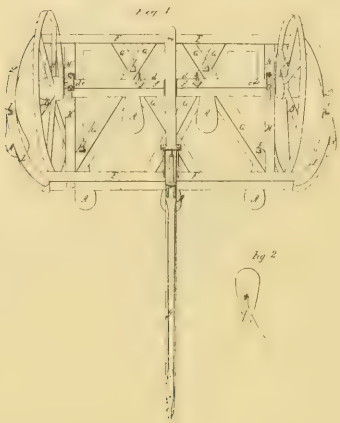


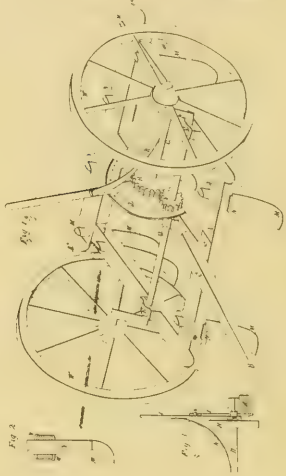
Harris & Cleghorn.

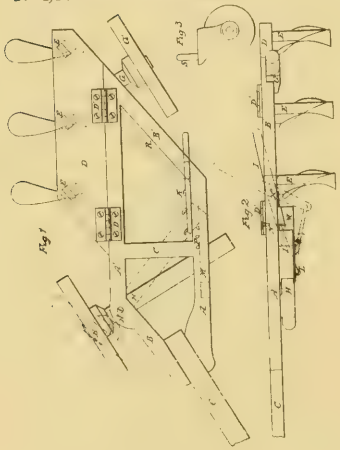
Wheel Cultivator.

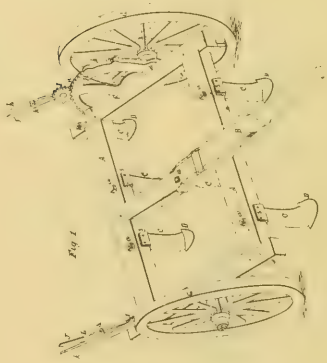
No. 5,457. Patented Aug. 21, 1847.

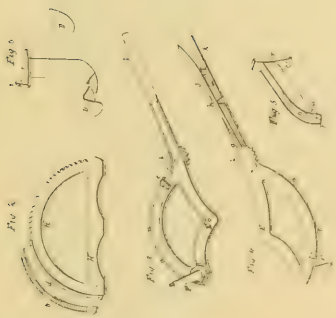


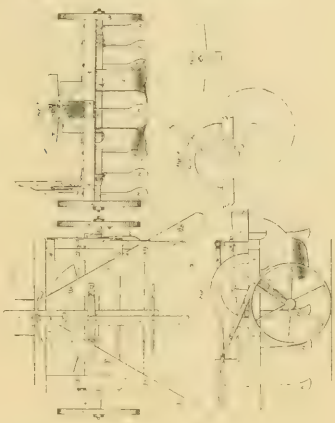

D. S. Billings.
Wheel Cultivator
No 8,139
Patented Feb 11 1851
Fig 1
Fig 2


D. B. Rogers
Wheel Cultivator
No 6,017
Patented Jan 16 1849
Fig 1
Fig 2

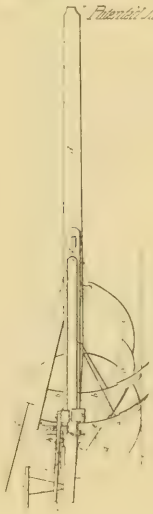

C. W. C. Gillespie.
Wheel Cultivator
No 8,313
Patented Sep 9 1851
Fig 1
Fig 2
Fig 3


F. P. Root.
Wheel Cultivator
No 9,005
Patented Jan 8 1852
Fig 1

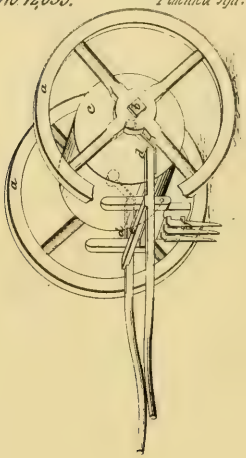

F P Root.
Wheel Cultivator.
Patented Jun 8, 1852.


S. Lapham.
Wheel Cultivator.

E. Boughton.
Wheel Cultivator.
Patented Jan. 31, 1854.


J. Imel.
Patented Jan 2, 1855.

F. L. Smithson,
Wheel Cultivator:
No. 12,653. Patented Apr. 3. 1855.



N. Whitehall. Sheet 1-2 Sheets
Wheel Cultivator.
No. 13,191. Patented Jul. 3, 1855.

Fig 1

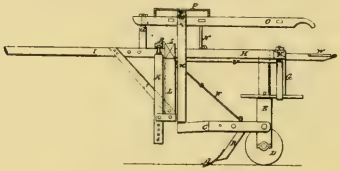
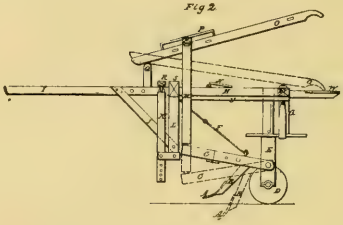


Fig 2.



N. Whitehall. Sheet 2-2 Sheets
Wheel Cultivator.
No. 13,191. Patented Jul. 3, 1855.

Fig 3

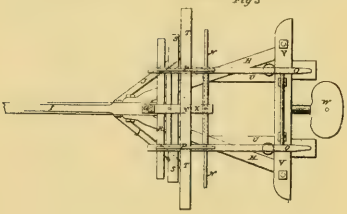
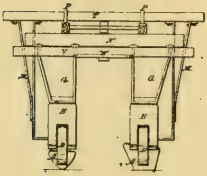
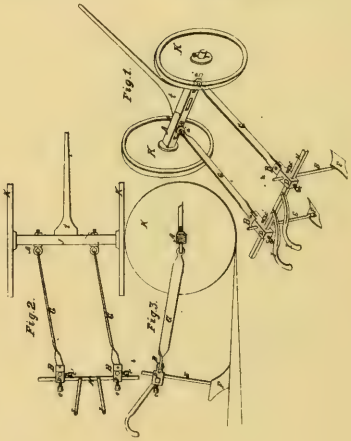


Fig 4



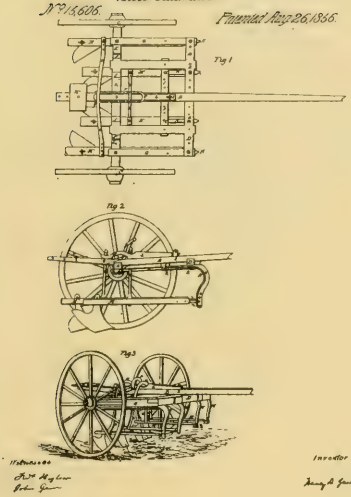
G. Esterly.
Wheel Cultivator.
No. 16,715. Patented Apr. 22, 1856.



H. D. Carse.

Wheel Cultivator.

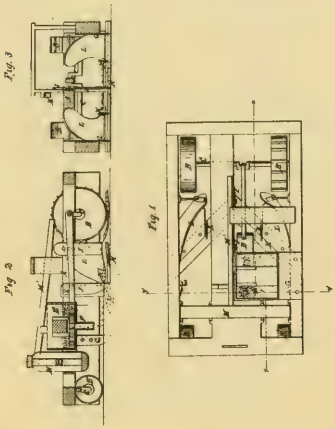
No. 15,606. Patented Aug. 26, 1856.



I. Robinson.

Wheel Cultivator

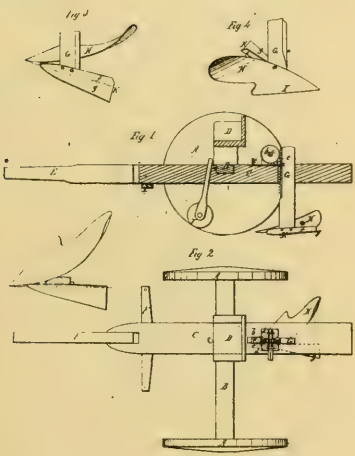
No. 15,917 Patented Sept. 30, 1856.



M. Farley.

Wheel Plow.

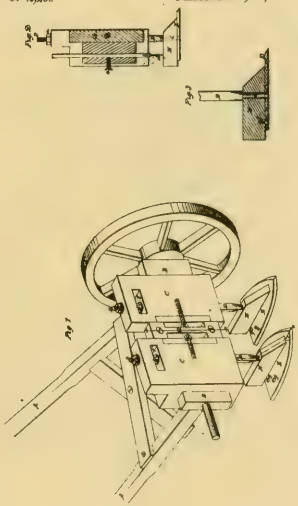
No. 18,216 Patented Dec. 9, 1857.



J. Shaw.

Wheel Cultivator.

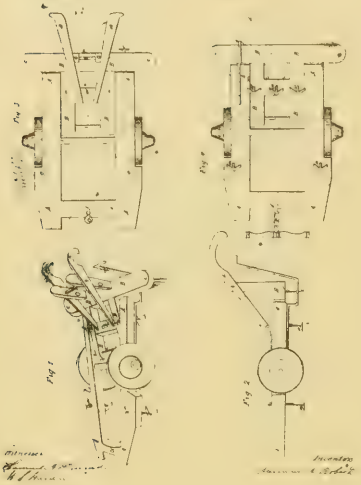
No. 16,601 Patented Jan. 13, 1857.



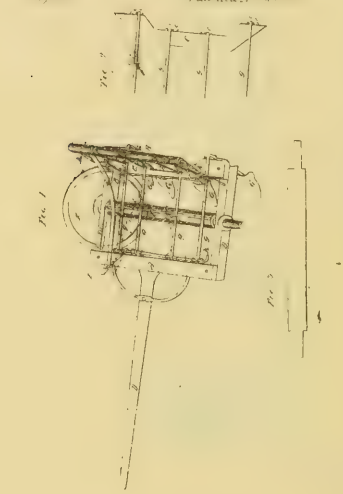
Roberts & Dunn

Wheel Cultivator

No. 17,594 Patented May 26, 1857



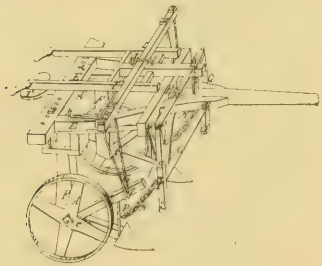
Cobery & Ravi



N. Whitehall.

Wheel Cultivator.

No. 18,530. Patented Oct. 27, 1857.



Witnesses

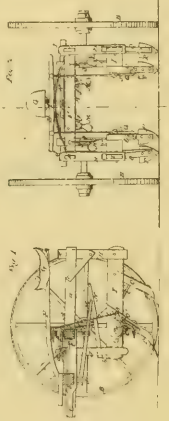
Inventor

Nicholas Whitehall

D. E. Hall.

Cultivator,

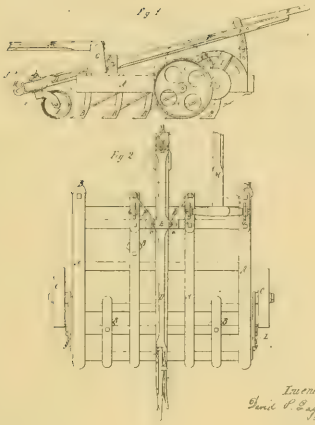
No. 18,587. Patented Nov. 10, 1857.



D. P. Daggett.

Wheel Cultivator.

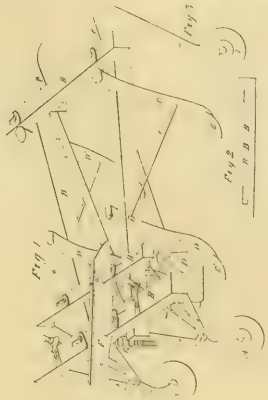
No. 18,810 Patented Dec. 15, 1857



Fraser & McLellan.

Wheel Cultivator.

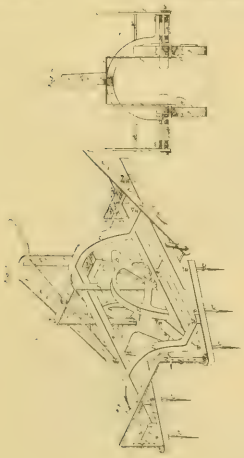
No. [illegible] Patented [illegible]



I. Böhj.

Wheel Cultivator.

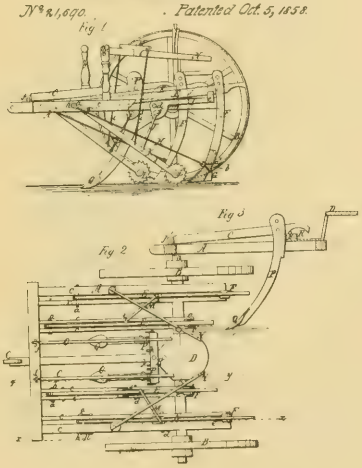
No. 21,226 Patented Sept. [illegible]



B. S. Morgan.

Wheel Cultivator.

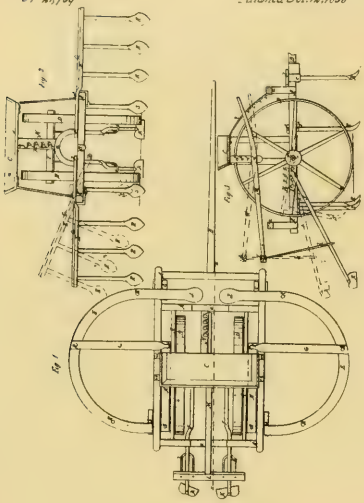
No. 21,690. Patented Oct. 5, 1858.



S. E. & C. H. Carrington.

Wheel Cultivator.

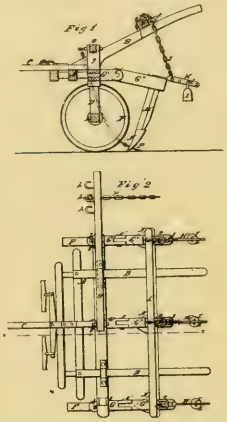
No. 21,734. Patented Oct. 12, 1858.



W. Wilmot.

Wheel Cultivator.

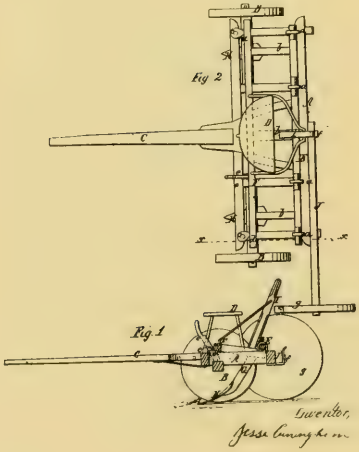
No. 22,216. Patented Nov. 30, 1858.



J. Cunningham.

Wheel Cultivator.

No. 22,630. Patented Jan. 18, 1859.

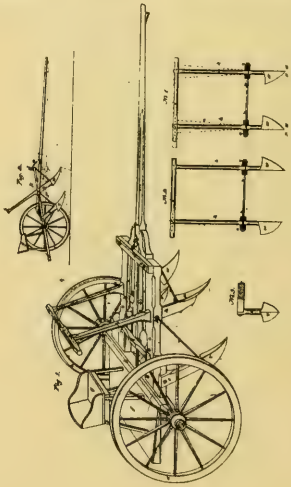


Inventor,
Jesse Cunningham

J. Dundas.

Cultivator.

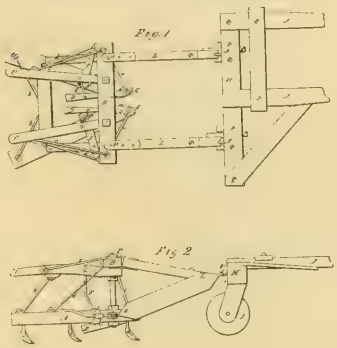
No. 22,859. Patented Feb. 8, 1859.



J. W. Whitney

Wheel Cultivator.

No. 23,115 Patented Mar. 1, 1859.



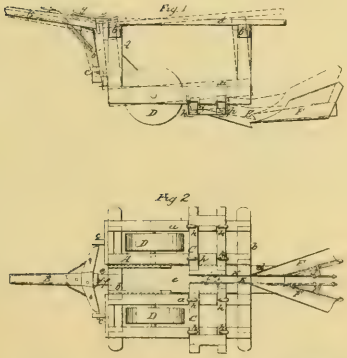
Witnesses
H. L. Jewett
F. W. Wooster

Inventor.
James Swords
by his Attorney
C. S. Ames

D. & H. S. Markham & D. Eldred.

Wheel Cultivator.

No. 23,184. Patented Mar. 8, 1859.



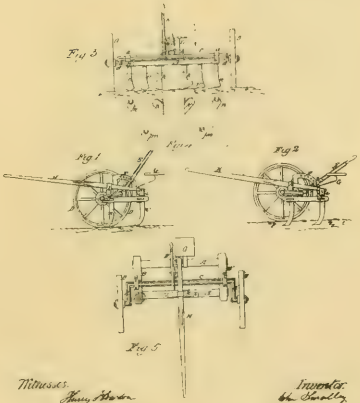
Witnesses
James Abbey
J. P. Reynolds

Inventors
Daniel Markham
H. S. Markham
Daniel Eldred

[illegible]

Wheel Cultivator.

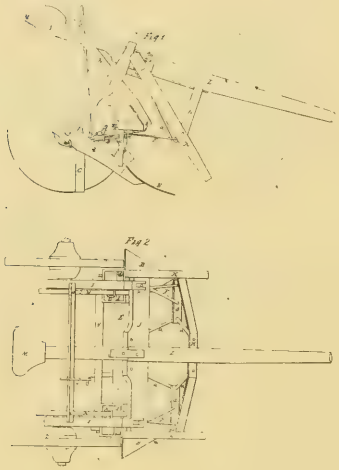
No. 23,102. Patented Mar. 29, 1859.



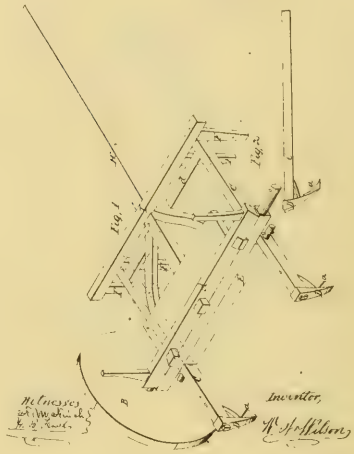
Witnesses.
Henry Harden
Rens. Ely

Inventor.
John Stanley

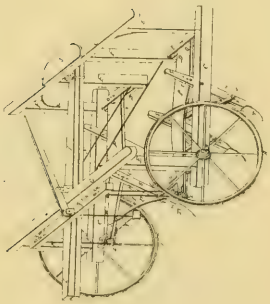
N. Whitshall.
Wheel Cultivator.
No. 24,071. Patented May 17, 1859



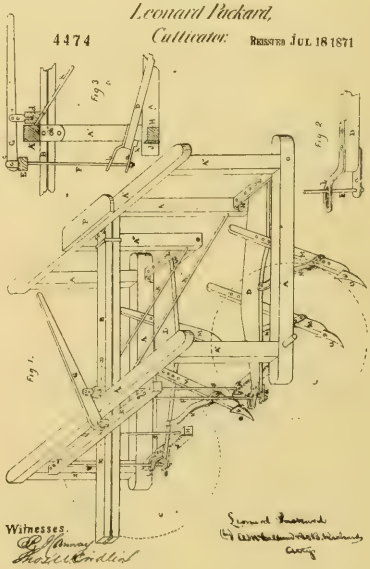
W. J. Wilson.
Wheel Cultivator.
No. 24,171. Patented May 24, 1859



L. Packard
Wheel Cultivator.
No. 25,037. Patented Aug 9, 1859



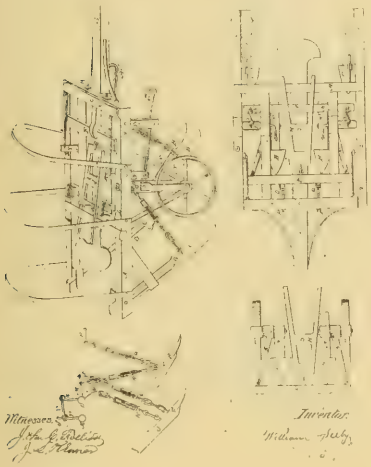
Leonard Packard,
Cultivator. 4474 Reissued Jul 18 1871



W. Seely.

Wheel Cultivator.

No. 92,764. Patented Oct. 11, 1869.



Witnesses:
John G. Rollins
J. E. Wilmer

Inventor:
William Seely

I. McCuiston.

Wheel Cultivator.

No. 85,803 Patented Oct. 13, 1869.

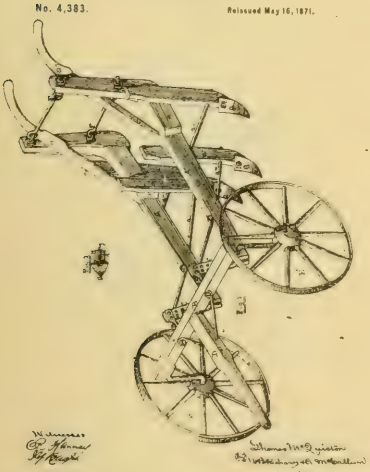
Witnesses,
David P. Robinson
Philip Murray

Inventor,
Thomas McCuiston

THOMAS McQUISTON.

Improvement in Cultivators.

No. 4,383. Reissued May 16, 1871.



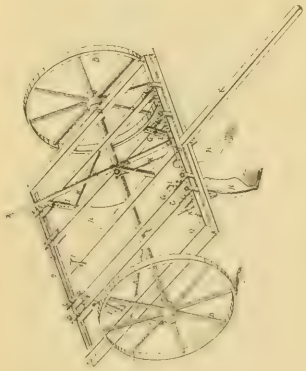
Witnesses
C. P. Thomas
Jos. Knight

Thomas McQuiston
by Wilkinson & McCullough
Attys

A. CAREY.

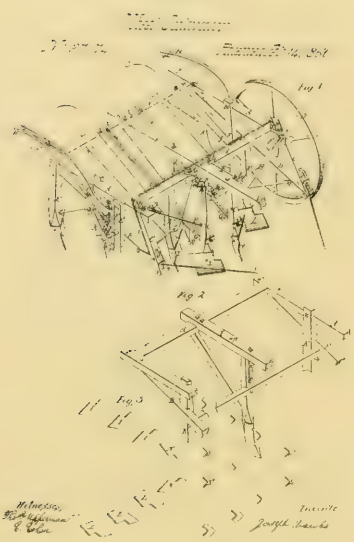
Wheel-Cultivator.

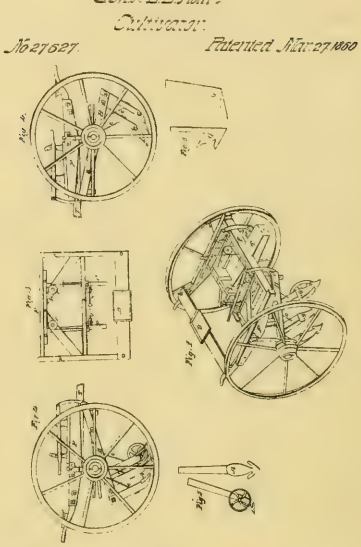
No. 27,106 Patented Feb. 14, 1860

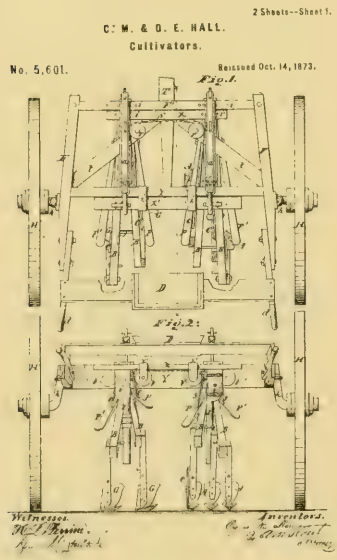


Witnesses
Geo. W. Hemple
C. Ob[illegible]

Inventor.
Abner Carey




C. M. & D. E. Hall.
Cultivator.
No. 27,627.
Patented Mar. 27, 1860.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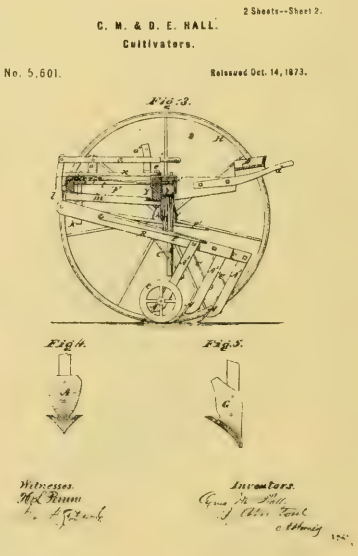
C. M. & D. E. HALL.
Cultivators.
No. 5,601.
Reissued Oct. 14, 1873.
Fig. 1.
Fig. 2.
Witnesses.
Inventors.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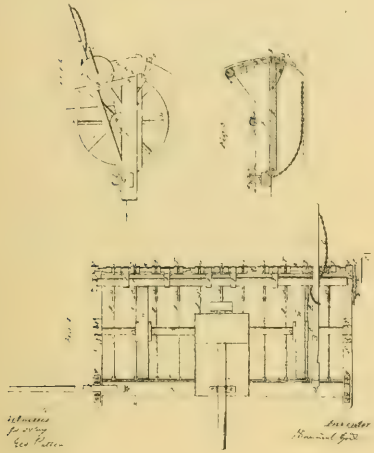
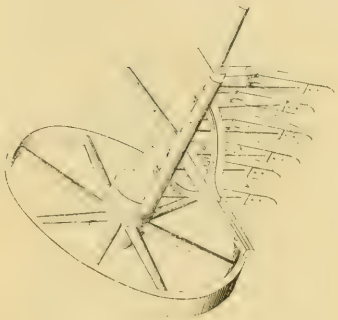
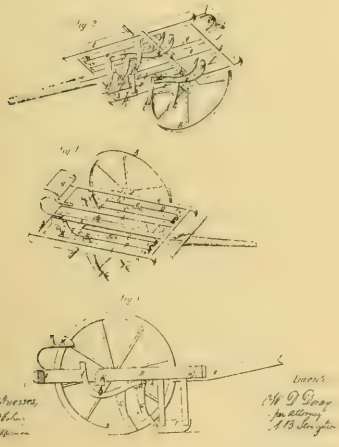
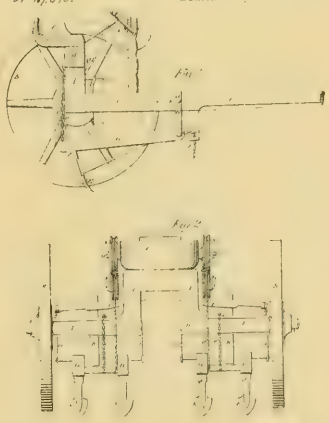
C. M. & D. E. HALL.
Cultivators.
No. 5,601.
Reissued Oct. 14, 1873.
Fig. 3.
Fig. 4.
Fig. 5.
Witnesses.
Inventors.


Wheel Cultivator
No 27,632.
Patented Mar 27, 1860
Witnesses
Inventor


No 27,654
Patented Mar 27, 1860

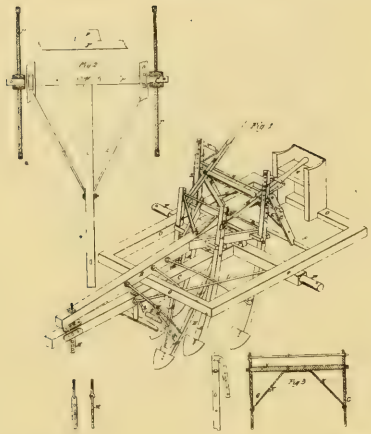

Wheel Cultivator
Patented Apr 3, 1860
Fig 3
Fig 1
Fig 2
Witnesses
Inventor
Chas D Gray
by his Attorney
A B Stanton


Wheel Cultivator
No 27,675.
Patented Apr 24, 1860
Fig 1
Fig 2

J. R. Smith.

Wheel Cultivator

No. 28,014 Patented Apr. 24, 1860.



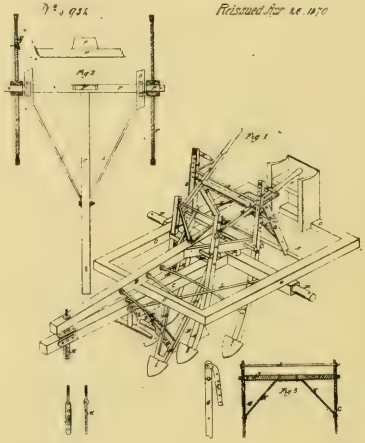
Witnesses.

Inventor

J. R. Smith.

Wheel Cultivator

No. 9,952 Reissued Apr. 26, 1870



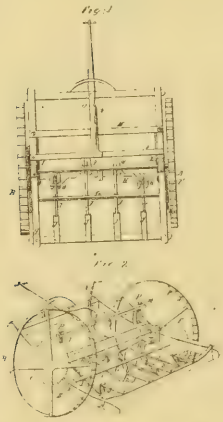
Witnesses

Inven.

J. Neff, Jr.

Wheel Cultivator.

No. 28,141. Patented May 8, 1860.



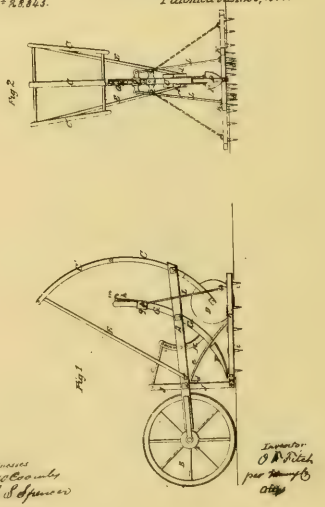
Witnesses

Inventor

O. F. Fitch.

Wheel Cultivator

No. 28,843. Patented Jun. 26, 1860.



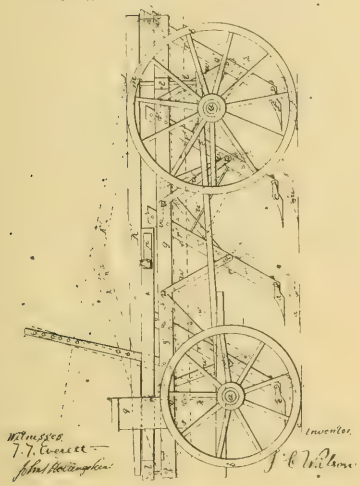
Witnesses

Inventor

J. C. Wilson.

Wheel Cultivator.

No. 29,087. Patented Jul 3, 1860



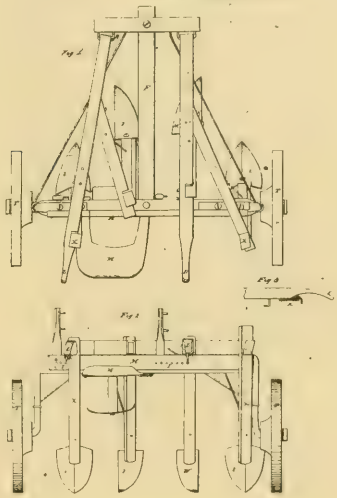
Witnesses
T. T. Everett
John Hollingshead

Inventor.
J. C. Wilson

H. Pickers.

Cultivator.

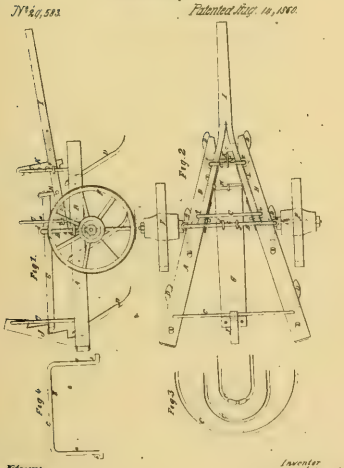
No. 29,094. Patented Jul 10, 1860.



S. Goldsmith.

Wheel Cultivator

No. 29,513. Patented Aug. 14, 1860.



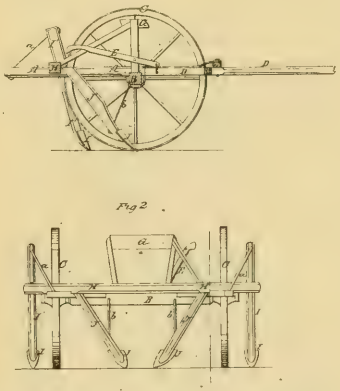
Witnesses
[illegible]

Inventor
[illegible]

L. E. Hawkins.

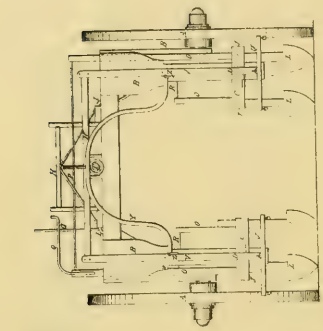
Wheel Cultivator.

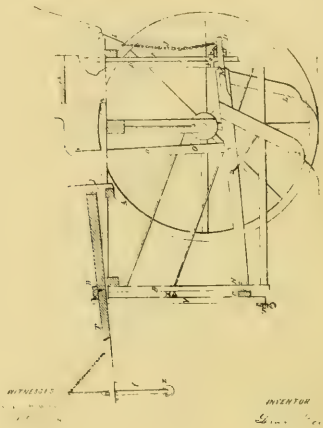
No. 29,592. Patented Aug. 14, 1860.

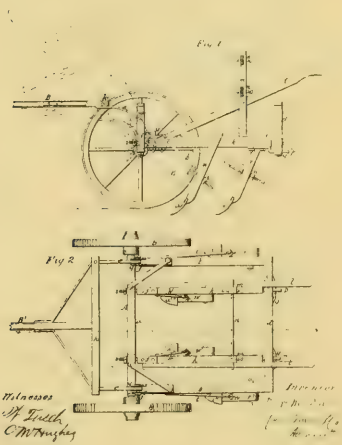


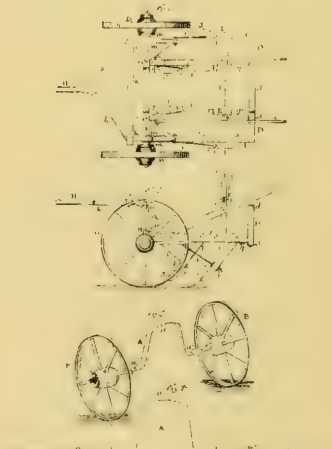
Witnesses
J. W. Roosevelt
R. S. Spencer

Inventor:
L. E. Hawkins
Spencer Murray & Co.
Attorneys

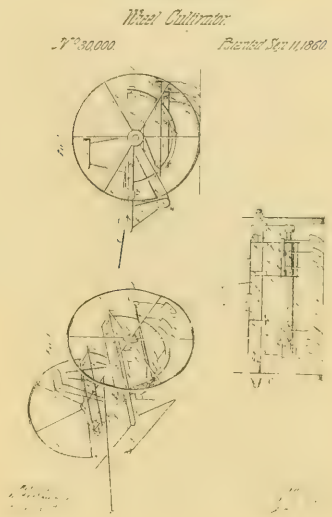

Wheel Cultivator
WITNESSES.

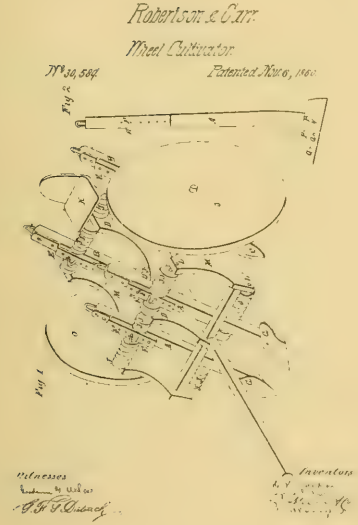

L. Heber.
Wheel Cultivator
WITNESSES
INVENTOR

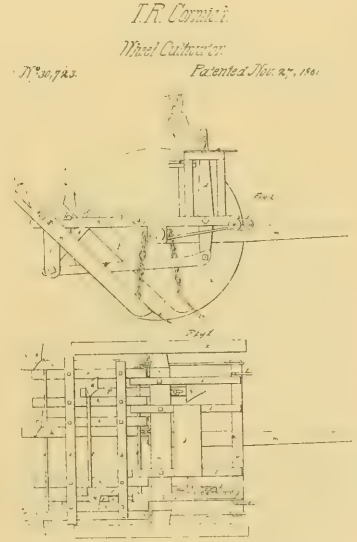

T. W. McDill.
Wheel Cultivator.
Patented Aug. 21, 1860
Fig 1
Fig 2
Witnesses


T. W. McDILL.
Cultivators
No. 6,137.
Patented Nov. 1 1874

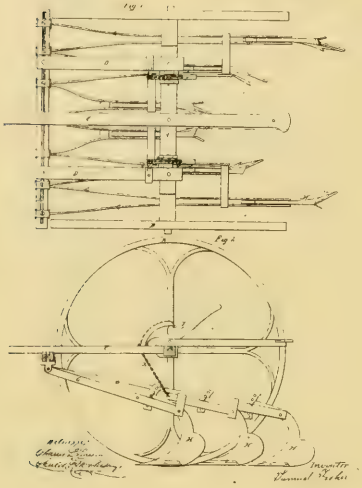
Wheel Cultivator
Patented Sep 18, 1860


W. H. & L. Seymour.
Wheel Cultivator.
No 30,000.
Patented Sep 11, 1860

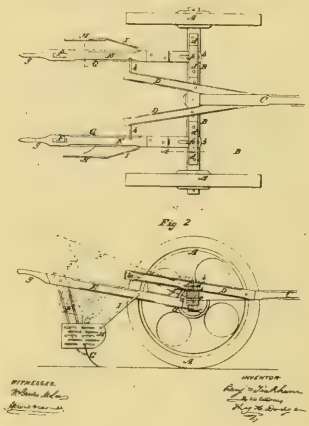

Robertson & Carr.
Wheel Cultivator
No 30,587.
Patented Nov 6, 1860
Witnesses
Inventors


T. R. Cornish.
Wheel Cultivator
No 30,723.
Patented Nov 27, 1860

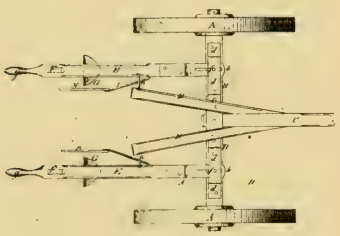
S. Fisher.
Wheel Plow.
No. 30,727. Patented Nov. 27, 1860.



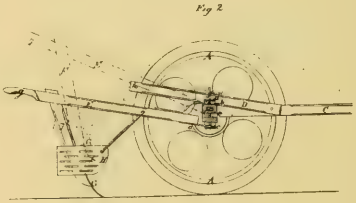
B. Tinkham.
Wheel Cultivator.
No. 30,895. Patented Dec. 11, 1860.



E. Tinkham.
Wheel Cultivator.
No. 1,231. Reissued Jan. 10, 1871.



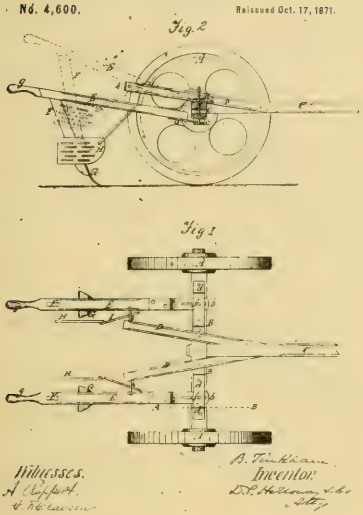
E. Tinkham,
Wheel Cultivator.
No. 1,231. Reissued Jan. 10, 1871.



B. TINKHAM.

Improvement in Cultivators.

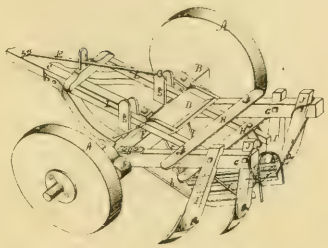
No. 4,600. Reissued Oct. 17, 1871.



J. K. St. Clair Gunn.

Cultivator.

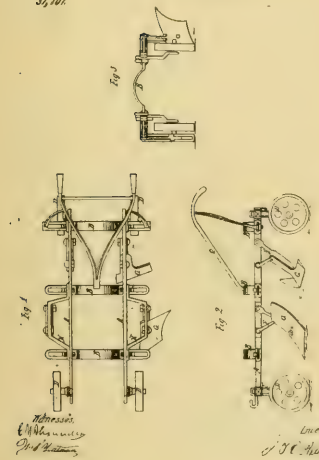
No 30960. Patented Dec 18 1860.



J. T. D. Alexander.

Wheel Cultivator.

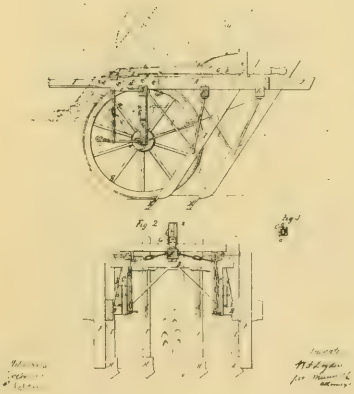
No. 31,161. Patented Jan. 15, 1861.



W. R. Dryden.

Wheel Cultivator.

No. 108. 31,112. Patented Jan 15, 1861

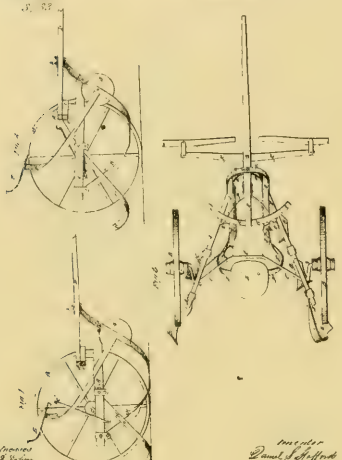


D. S. Stafford.

Wheel Cultivator.

No. 99

Patented Jan 15, 1861.



Witnesses
J. Wilson
J. Mong

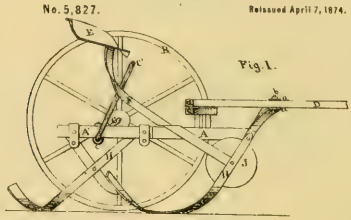
Inventor
Daniel S. Stafford
by his Attorney
L. Stratton

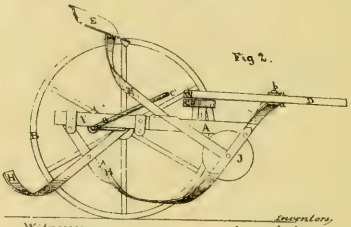
2 Sheets--Sheet 1.

ELIZA S. CONKLIN & J. STAFFORD.

Cultivators.

No. 5,827. Reissued April 7, 1874.





Witnesses,
C. H. Mannay
Theodore Sellers

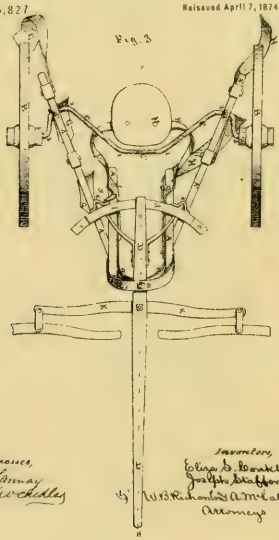
Inventors,
Eliza S. Conklin
Joseph Stafford
by W. B. Richards & A. McCallum
Attorneys

2 Sheets--Sheet 2.

ELIZA S. CONKLIN & J. STAFFORD.

Cultivators.

No. 5,827. Reissued April 7, 1874.



Witnesses,
C. H. Mannay
Theodore Sellers

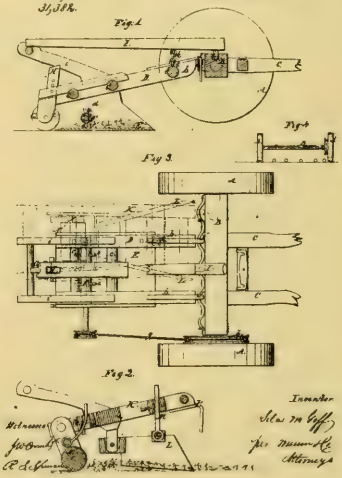
Inventors,
Eliza S. Conklin
Joseph Stafford
by W. B. Richards & A. McCallum
Attorneys

S. M. Goff.

Wheel Cultivator.

No. 37,382.

Patented Feb. 12, 1861.



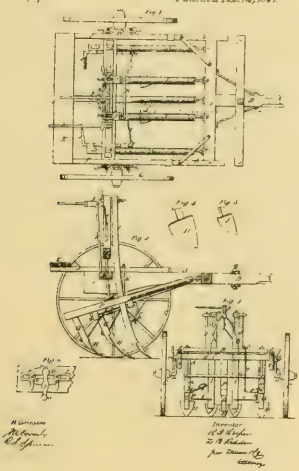
Witnesses
J. W. Smith
A. D. Shaw

Inventor
Silas M. Goff
per Munn & Co.
Attorneys

Leeper & Ridder.

Wheel Cultivator.

No. 35,393. Patented Feb. 12, 1861.



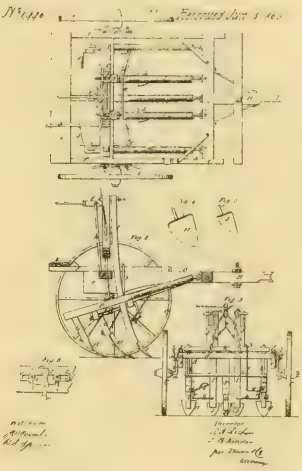
Witnesses

Inventors

Leeper & Ridder.

Wheel Cultivator.

No. 41,440. Patented Jan. 5, 1864.



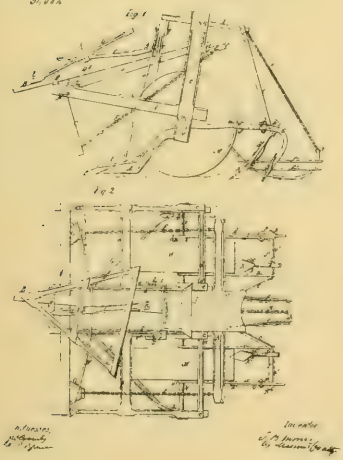
Witnesses

Inventors

J. B. Turner.

Wheel Cultivator.

No. 41,674. Patented Mar. 15, 1864.



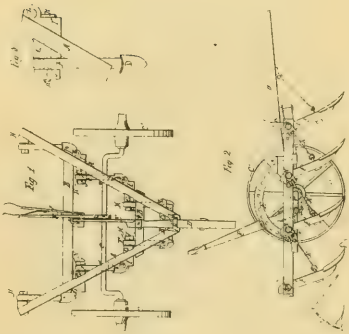
Witnesses

Inventor

Cox & Throp.

Wheel Cultivator.

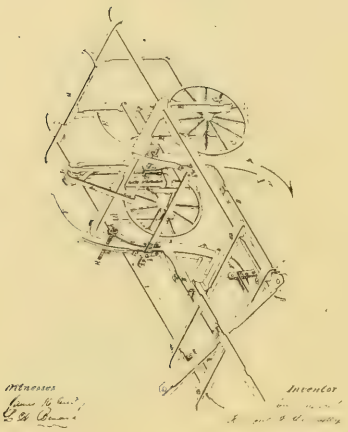
No. 41,698. Patented Mar. 15, 1864.



J. Martel.

Wheel Cultivator

No. 7,421. 31,725. Patented Mar. 19, 1861.



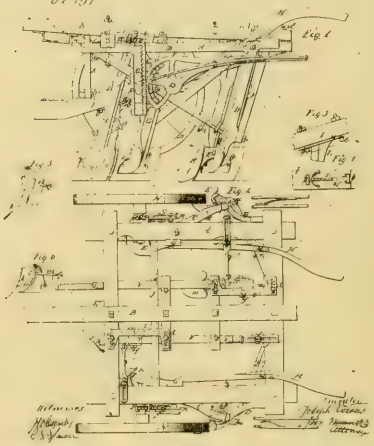
Witnesses

Inventor

J. Vowles.

Wheel Cultivator

No. 31,387. 32,301. Patented May 21, 1861.



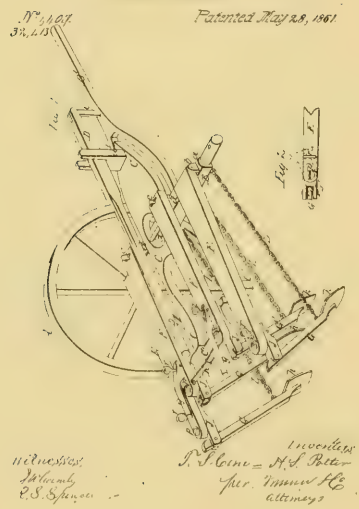
Witnesses

Inventor

Cone & Potter.

Wheel Cultivator

No. 31,017. 32,113. Patented May 28, 1861.



Witnesses

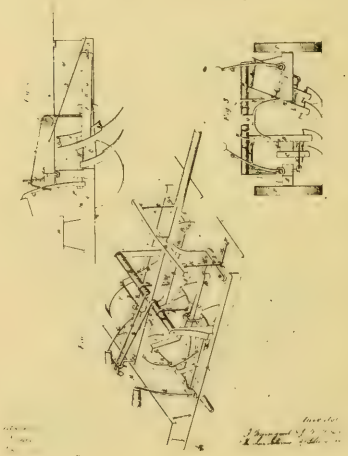
J. J. Cone — H. S. Potter

Per Munn & Co. Attorneys

Mumford & Wilson.

Wheel Cultivator

No. 1,287. 31,351. Patented May 28, 1861.

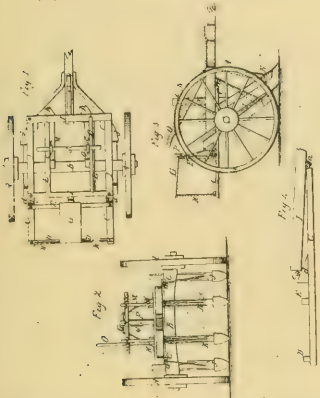


Inventor

W. S. Weir Jr.

Wheel Cultivator

No. 1,438 Patented May 28, 1861.



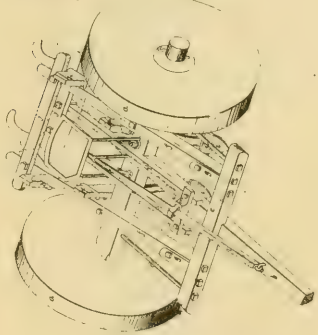
Witnesses

Inventor

J. & St. C. Gum.

Wheel Cultivator

No. 1,556 Patented Jan. 18, 1861.



Witnesses:

Inventors:

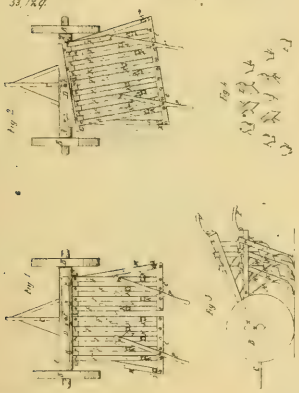
Joseph Gum

St. Clair Gum

H. Bowen

Wheel Cultivator

No. 1,125 Patented Nov. 27, 1861

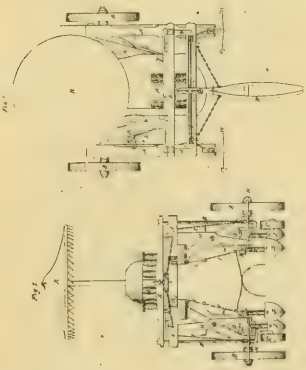


Witnesses

Inventor

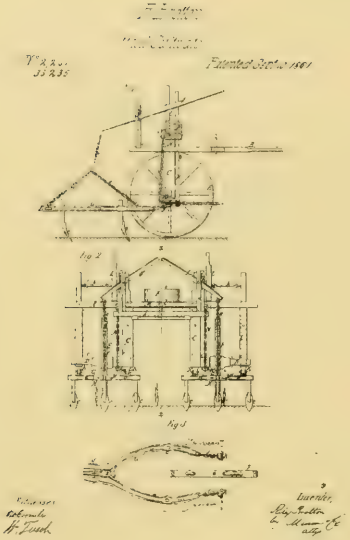
Wheel Cultivator

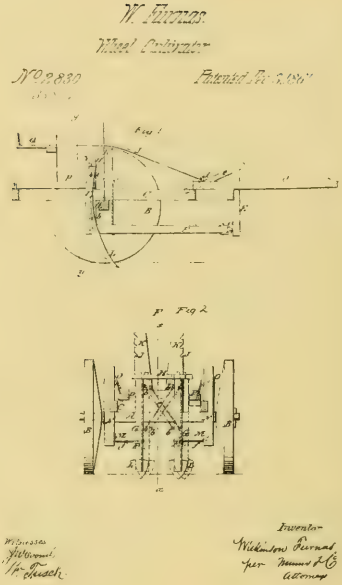
No. 1,174 Patented Nov. 7, 1861

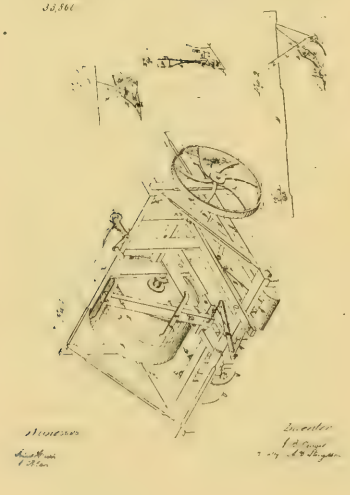


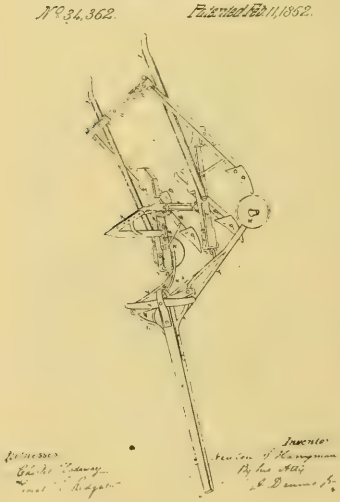
Witnesses

Inventor





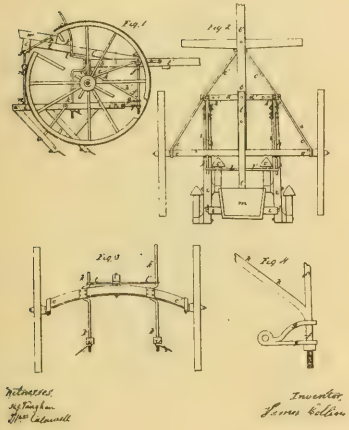




J. Collins.

Wheel Cultivator.

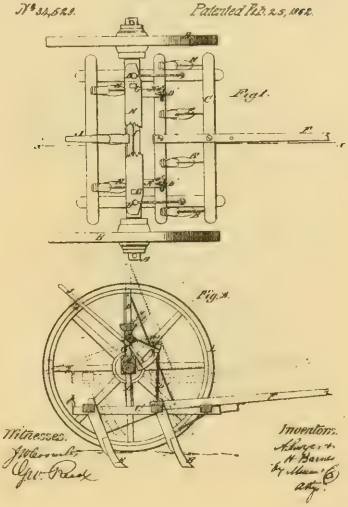
No. 34,406. Patented Feb. 18, 1862.



Sawyer & Barnes.

Wheel Cultivator.

No. 34,529. Patented Feb. 25, 1862.



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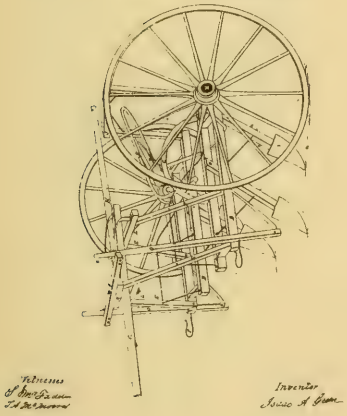
I. A. Green.

Wheel Cultivator.

No. 34,630. Patented Mar. 11, 1862.

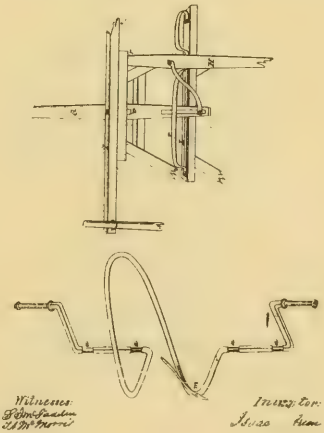


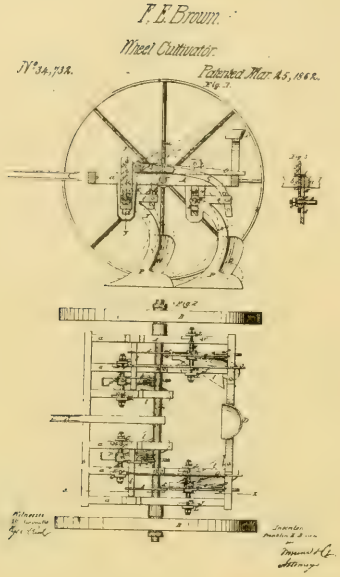
Sheet 2 Sheets.

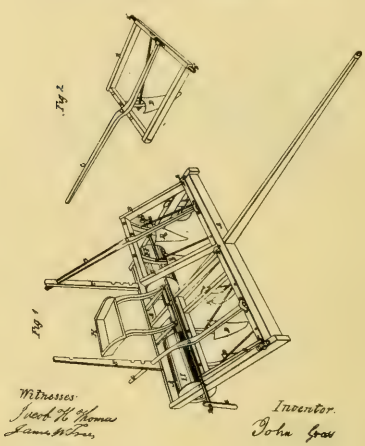
I. A. Green.

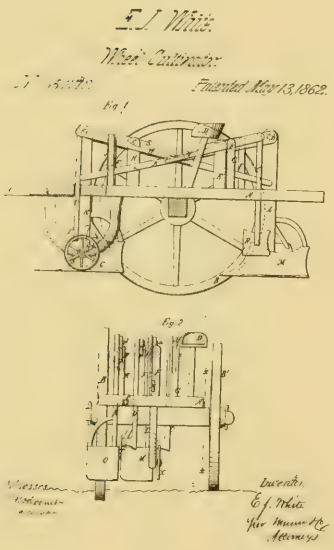
Wheel Cultivator.

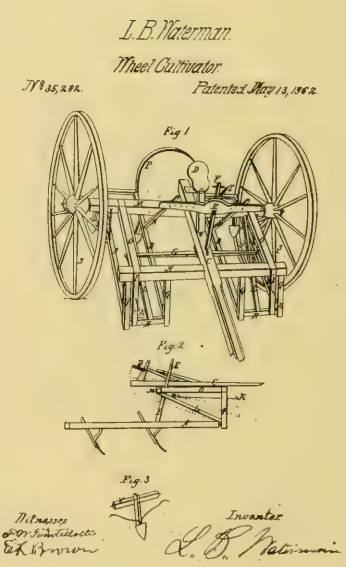
No. 34,630. Patented Mar. 11, 1862.




T. E. Brown.
Wheel Cultivator.
Patented Mar. 25, 1862.
Fig. 1.
Fig. 2.
Fig. 3.
Witnesses
Inventor
Attorneys


J. Gross.
Wheel Cultivator.
Patented Apr. 1, 1862.
Fig. 2.
Fig. 1.
Witnesses
Jacob H. Thomas
James M. Tone
Inventor.
John Gross

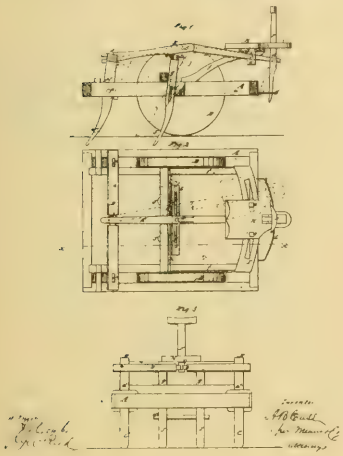

E. J. White.
Wheel Cultivator.
Patented May 13, 1862.
Fig. 1.
Fig. 2.
Witnesses
Inventor.
E. J. White
Per Munn & Co.
Attorneys


L. B. Waterman.
Wheel Cultivator.
Patented May 13, 1862.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
L. B. Waterman

A. B. Class.

Wheel Cultivator.

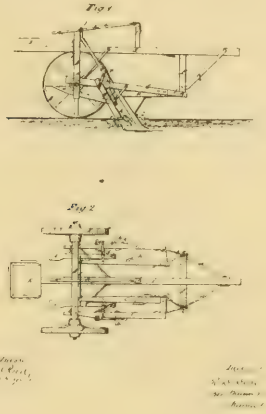
No. 35,668 Patented Jun. 24, 1862.



R. D. Dodge.

Wheel Cultivator.

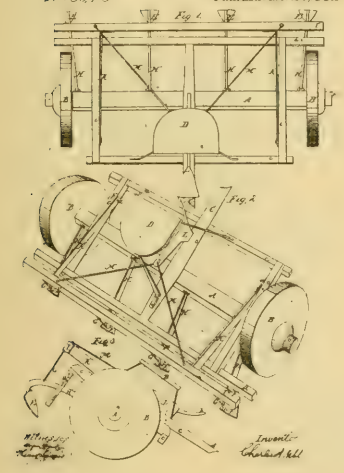
No. 35,673 Patented Jun. 24, 1862.



C. A. Uhl.

Wheel Cultivator.

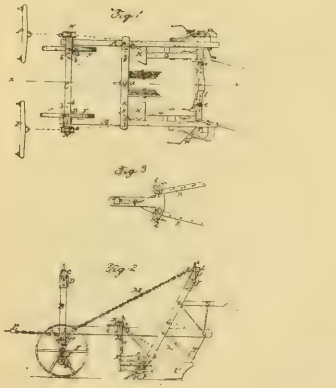
No. 35,718 Patented Jun. 24, 1862.



J. M. BAUMANN

Wheel-Cultivator.

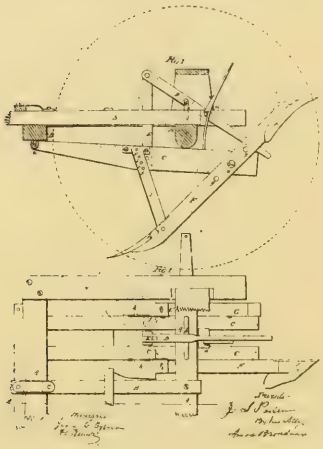
No. 36,985 Patented July 29, 1862



J. S. Paden.

Wheel Cultivator.

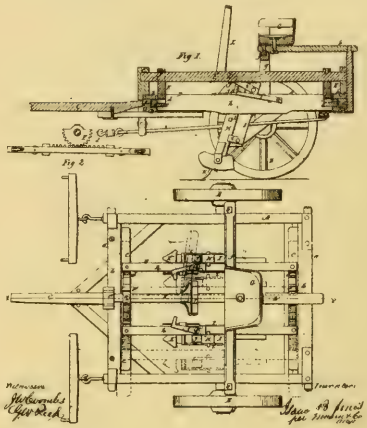
No. 35,919 Patented Jul. 29, 1862.



I. B. Jones.

Wheel Cultivator.

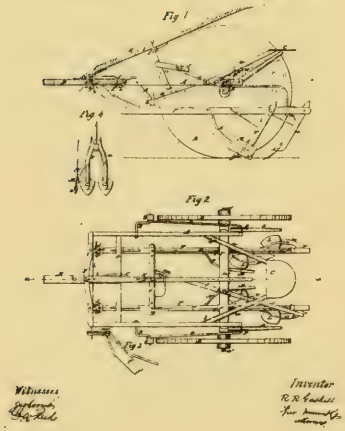
No. 36,153. Patented Aug. 12, 1862.



R. R. Castell.

Wheel Cultivator.

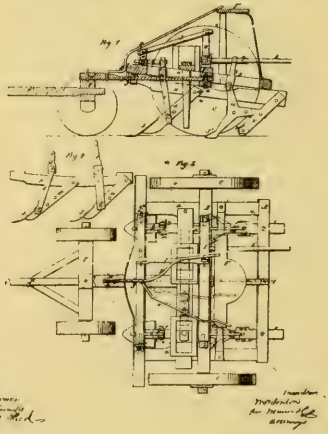
No. 36,609 Patented Oct. 7, 1862



W. H. Jordan.

Wheel Cultivator.

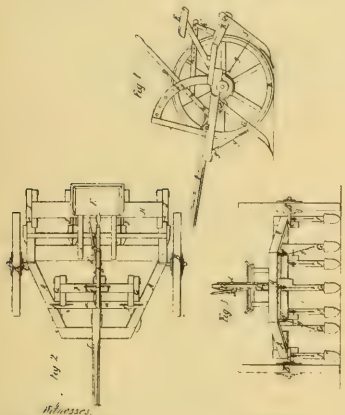
No. 36,785. Patented Oct. 28, 1862.



C. Roberts.

Wheel Cultivator.

No. 36,859. Patented Nov. 4, 1862.



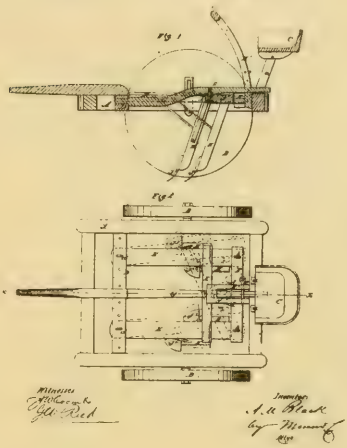
Witnesses,

Inventor,

A. M. Black

Wheel Cultivator.

No. 36,894 Patented Nov. 11, 1862.



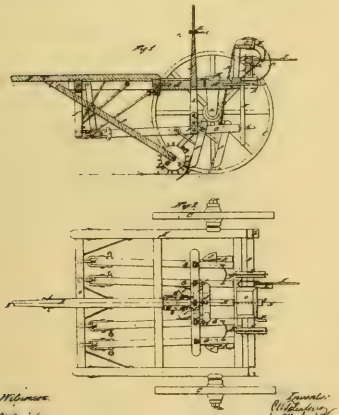
Witnesses

Inventor

C. W. Talbotherre

Wheel Cultivator.

No. 36,922. Patented Nov. 11, 1862.



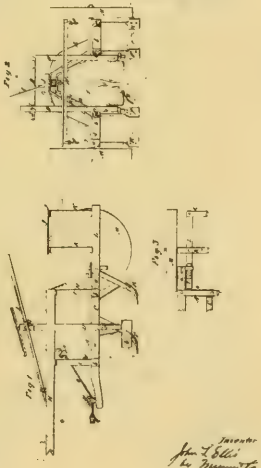
Witnesses

Inventor

J. L. Ellis.

Wheel Cultivator.

No. 36,915 Patented Nov. 11, 1862.



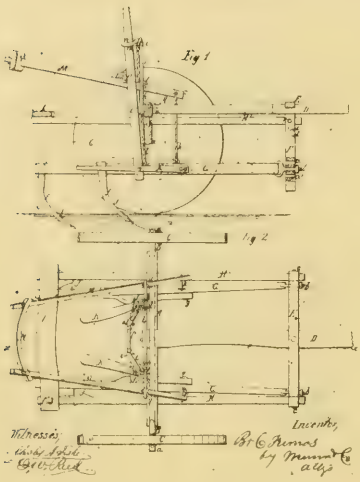
Witnesses

Inventor

B. & C. Furnas.

Wheel Cultivator.

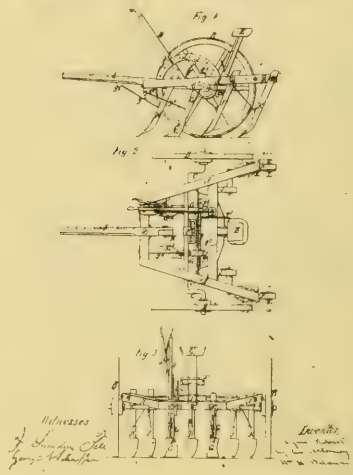
No. 36,916 Patented Nov. 18, 1862.



C. Roberts.

Wheel Cultivator.

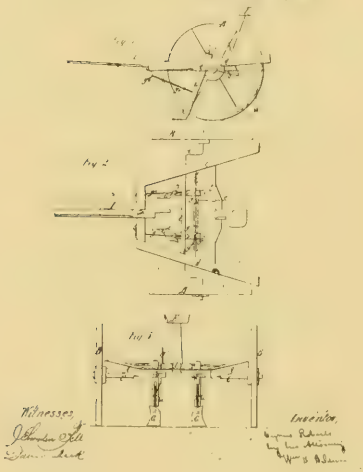
No. 37,009 Patented Nov. 25, 1862.



C. Roberts.

Wheel Cultivator.

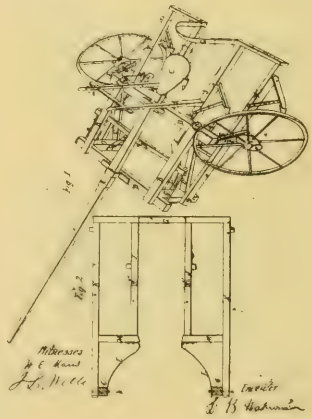
No. 37,010 Patented Nov. 25, 1862.



L. B. Waterman.

Wheel Cultivator.

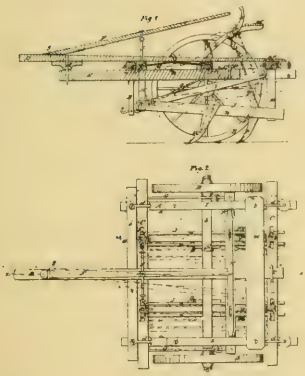
No. 37,029 Patented Nov. 25, 1862.



H. I. Heaton.

Wheel Cultivator

No. 37,166. Patented Dec. 16, 1862.



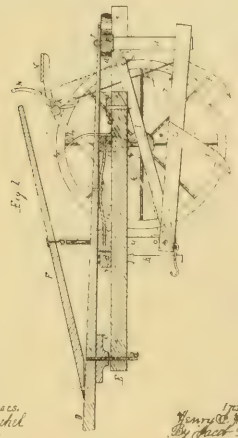
Witnesses
[illegible]

Inventor
H. I. Heaton
for Munn & Co.
Attorneys

2 Sheets—Sheet 1

H. I. HEATON,
Assignor to W. A. Knowlton
Cultivator

No. 7,944. Reissued Nov. 13, 1877.



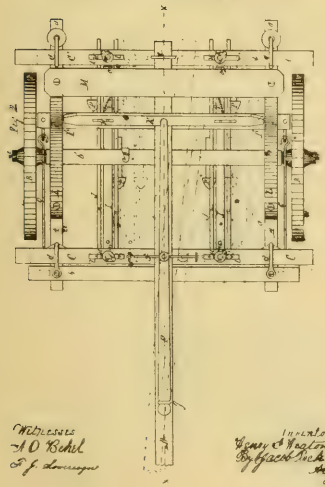
Witnesses.
A. O. Eckel
A. J. Lawrence

Inventor
Henry I. Heaton
By Jacob Eckel
Atty

2 Sheets—Sheet 2

H. I. HEATON,
Assignor to W. A. Knowlton
Cultivator.

No. 7,944. Reissued Nov. 13, 1877.



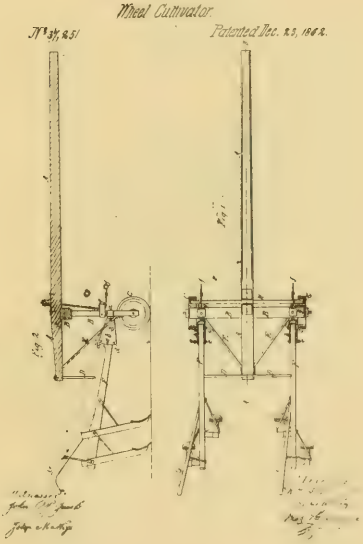
Witnesses
A. O. Eckel
A. J. Lawrence

Inventor
Henry I. Heaton
By Jacob Eckel
Atty

W. S. Weir, Jr.

Wheel Cultivator.

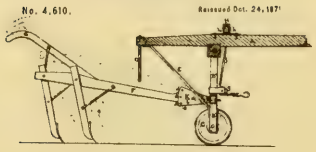
No. 37,851 Patented Dec. 23, 1862.

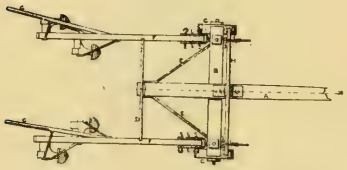


Witnesses
[illegible]
[illegible]

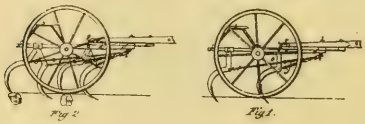
WILLIAM S. WEIR Jr.
Improved Cultivator

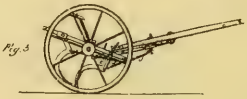
No. 4,610. Reissued Oct. 24, 1871

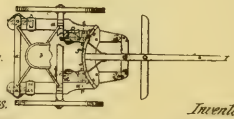




D. S. Stafford.
Wheel Cultivator.
No. 37,309. Patented Jan. 6, 1863.





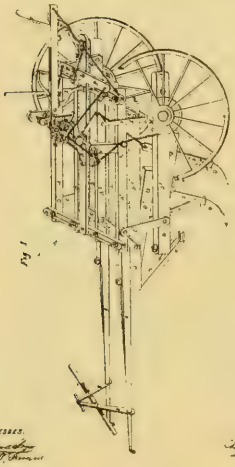


Witnesses.
J. C. Fulton
R. H. Ennis

Inventor:
Daniel S. Stafford
by his atty. J. B. Crosby

Sheet 1, 2 Sheets.

C. W. S. Heaton.
Wheel-Cultivator.
No. 37,474. Patented Jan. 20, 1863.

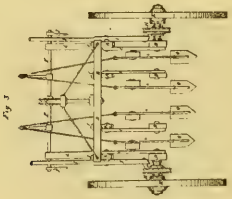


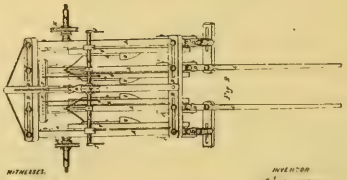
WITNESSES.
C. H. Stewart

INVENTOR

Sheet 2, 2 Sheets.

C. W. S. Heaton.
Wheel Cultivator.
No. 37,474. Patented Jan. 20, 1863





WITNESSES.
C. H. Stewart

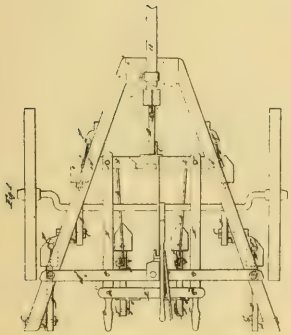
INVENTOR

Sheet 1, Sheet

Throp & Cox.

Wheel Cultivator.

No 37,658. Patented Jan. 27, 1863



Witnesses

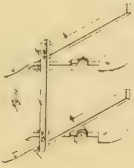
Inventors

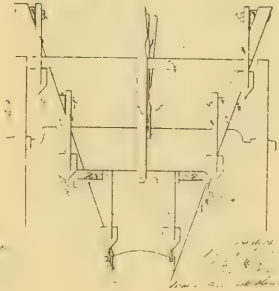
Sheet 2, Sheet

Throp & Cox.

Wheel Cultivator

No 37,558. Patented Jan. 27, 1863



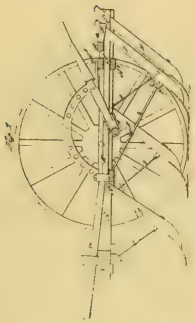


Sheet 3, Sheet

Throp & Cox.

Wheel Cultivator

No 37,558. Patented Jan. 27, 1863.



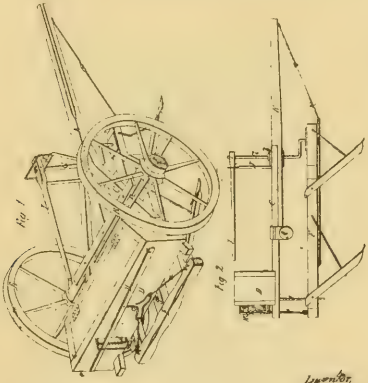
Witnesses.

Inventors

E. H. Sawyer.

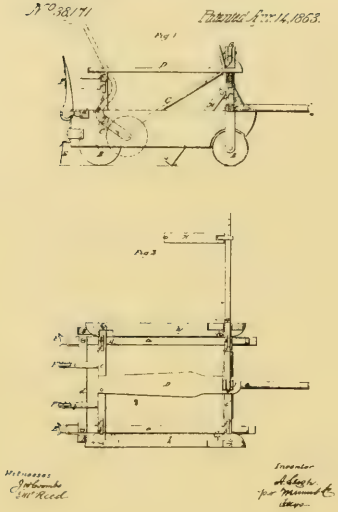
Wheel Cultivator

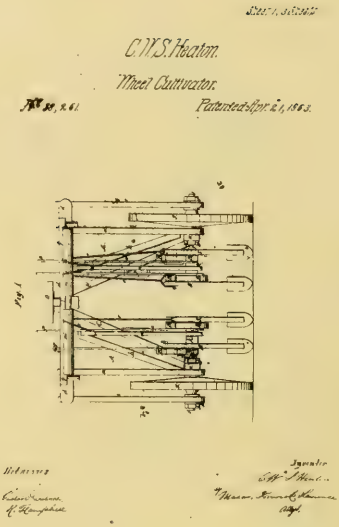
No 37,775. Patented Feb. 24, 1863.

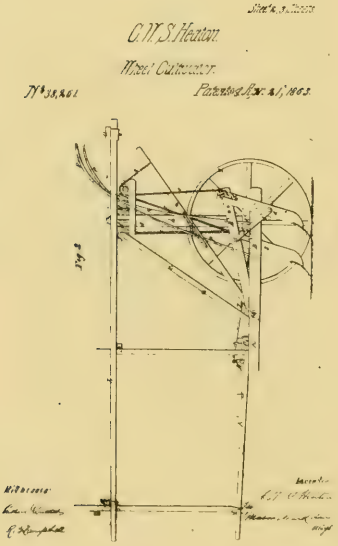


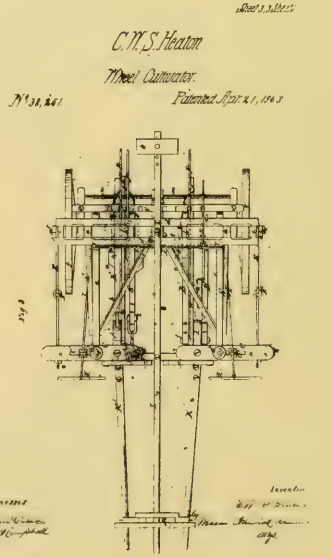
Witnesses:

Inventor.


A. Levitt.
Wheel Cultivator.
No 38,171
Patented Apr. 14, 1863.
Fig 1
Fig 3


C. W. S. Heaton.
Wheel Cultivator.
No 38,261
Patented Apr. 21, 1863.
Fig 1

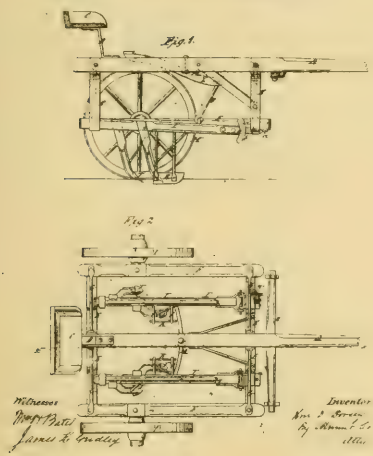

C. W. S. Heaton.
Wheel Cultivator.
No 38,261
Patented Apr. 21, 1863.
Fig 2

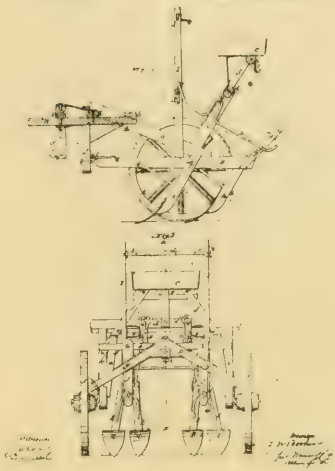

C. W. S. Heaton.
Wheel Cultivator.
No 38,261
Patented Apr. 21, 1863.
Fig 3

W. J. Dudley

Wheel Cultivator

No. 38,295. Patented Apr. 28, 1863.

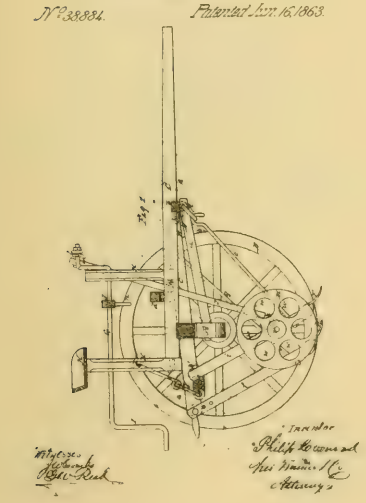




P. Conrad. Sheet 2 Sheets

Wheel Cultivator

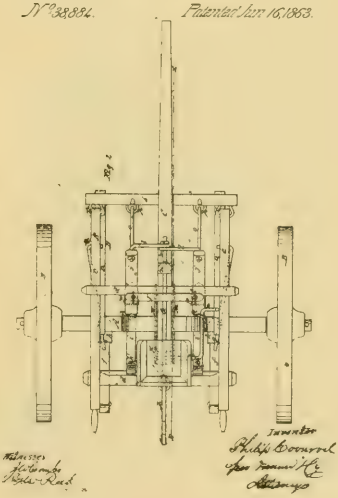
No. 38,884. Patented Jun. 16, 1863.

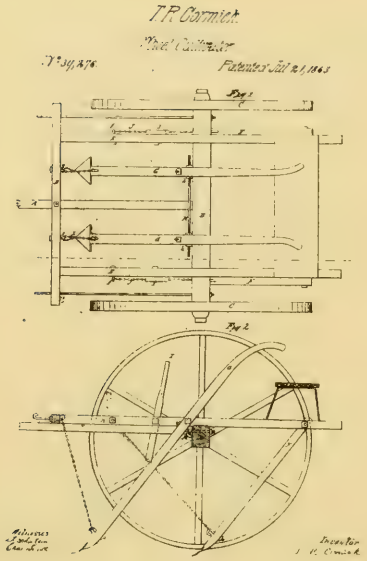


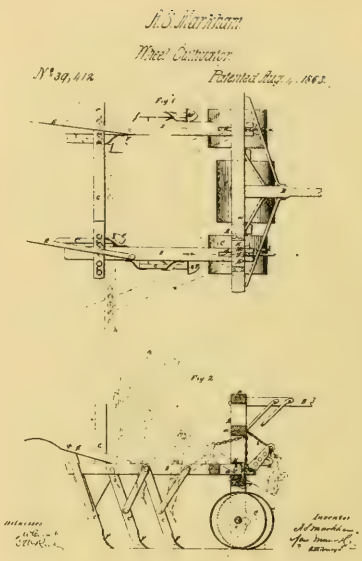
P. Conrad. Sheet 2 Sheets

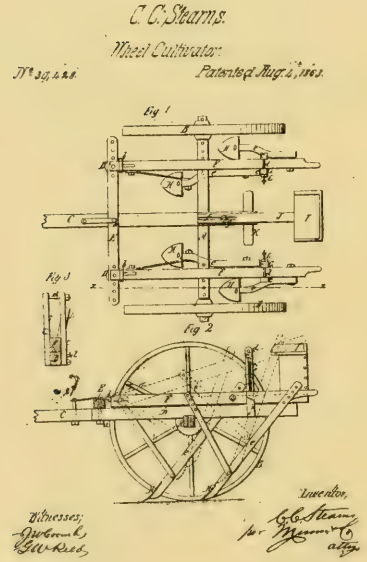
Wheel Cultivator

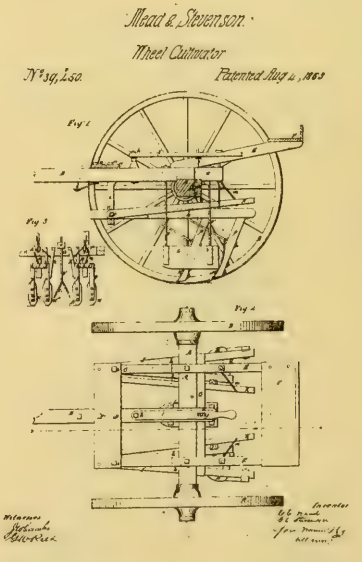
No. 38,884. Patented Jun. 16, 1863.




T. R. Cormick.
Wheel Cultivator.
No 39,476
Patented Jul 21, 1863
Fig 1
Fig 2
Witnesses
Inventor
T. R. Cormick


S. S. Markham.
Wheel Cultivator.
No 39,412
Patented Aug 4, 1863
Fig 1
Fig 2
Witnesses
Inventor

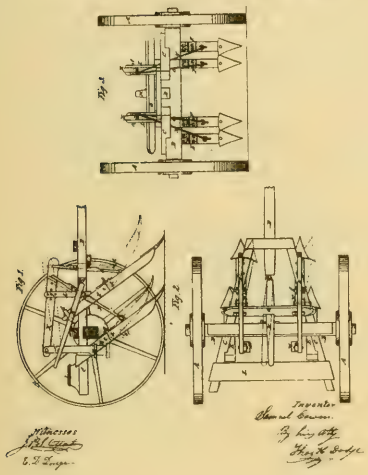

C. C. Stearns.
Wheel Cultivator.
No 39,448.
Patented Aug 4, 1863.
Fig 1
Fig 2
Fig 3
Witnesses;
Inventor,
for


Mead & Stevenson.
Wheel Cultivator
No 39,250.
Patented Aug 4, 1863
Fig 1
Fig 2
Fig 3
Witnesses
Inventors

S. Cowan.

Wheel Cultivator.

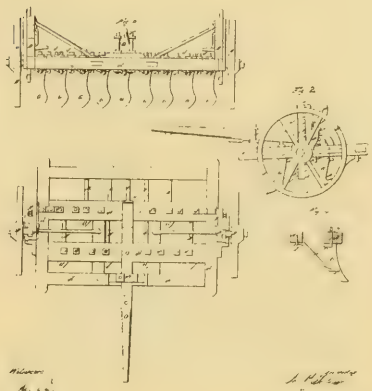
No. 39,663. Patented Aug. 18, 1863



J. P. Tostevin.

Wheel Cultivator.

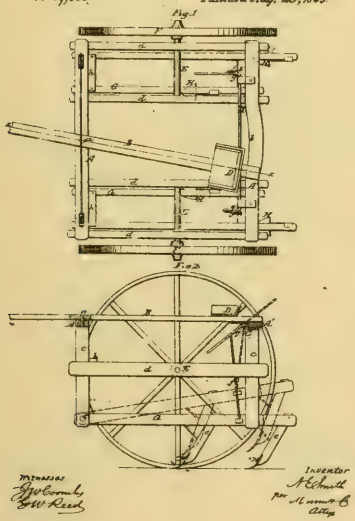
No. 39,547. Patented Aug. 18, 1863



N. E. Smith.

Wheel Cultivator.

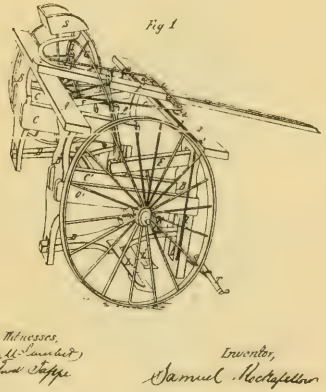
No. 39,686. Patented Aug. 25, 1863.



S. Rockafellow.

Wheel Cultivator.

No. 39,703. Patented Aug. 25, 1863



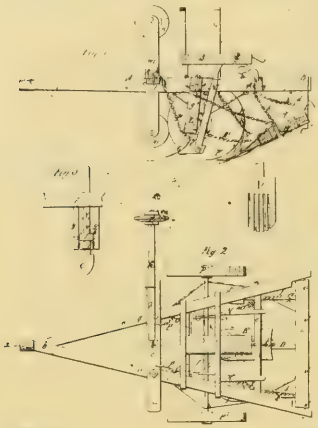
Witnesses,
D. H. Sunderlin
Jno. Steppe

Inventor,
Samuel Rockafellow

H. B. Smith.

Wheel Cultivator.

No. 39,700 Patented Sept. 1, 1863



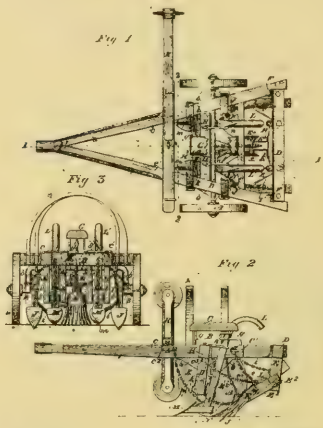
Witnesses,
Geo. Ermel
W. H. Reed

Inventor,
H. B. Smith
by Munn & Co
Attorneys

H. B. SMITH.

CULTIVATOR.

No. 7,377. Reissued Oct. 31, 1876.



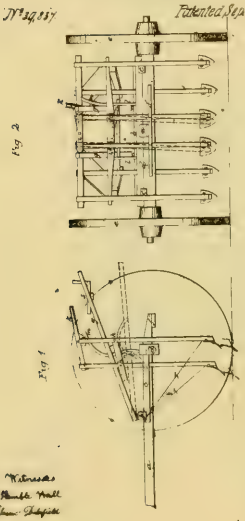
WITNESSES:
Wm. O. Shinnick
F. Otto

INVENTOR
Hart B. Smith
by his Attorney
Wm. Baldwin

G. H. Schanck.

Wheel Cultivator.

No. 39,857 Patented Sept. 8, 1863



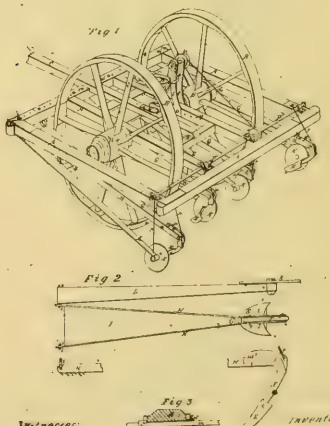
Witnesses
Geo. Smith Hall
Chas. Schofield

Inventor
G. H. Schanck
by his Attorney
Chas. Bonsall

E. F. Field.

Wheel Cultivator

No. 80,096 Patented Sept. 29, 1868.



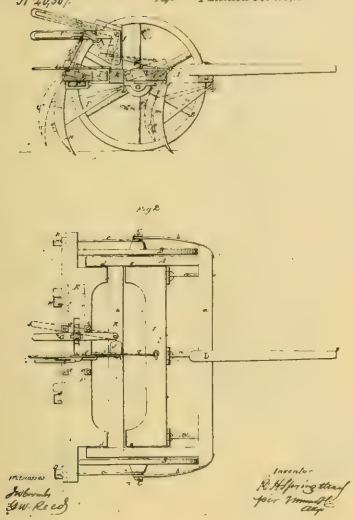
Witnesses:
John Wright
C. E. Mac

Inventor
Benjamin F. Field

F. H. Springstead.

Wheel Cultivator.

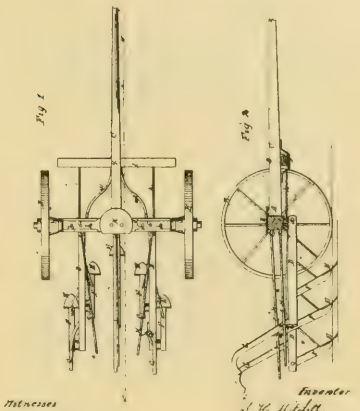
No. 40,367. Patented Oct. 20, 1863.



S. H. Mitchell.

Wheel Cultivator.

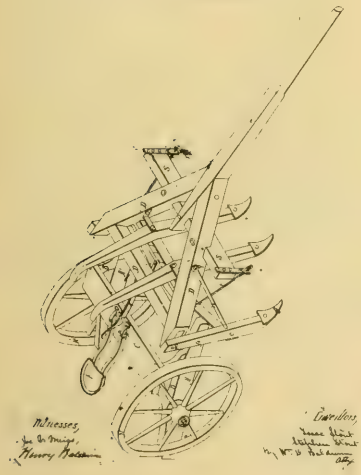
No. 40,766. Patented Dec. 1, 1863.



I. & S. Stout.

Wheel Cultivator.

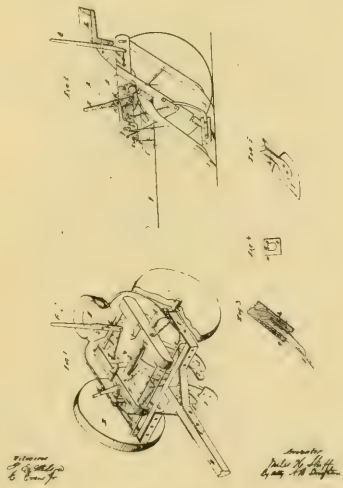
No. 40,776. Patented Dec. 1, 1863.



M. H. Stiff.

Wheel Cultivator.

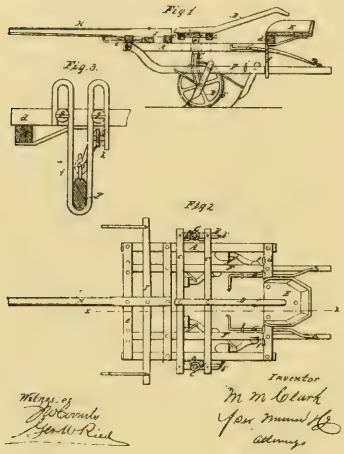
No. 40,859. Patented Dec. 8, 1863.



M. M. Clark.

Wheel Cultivator

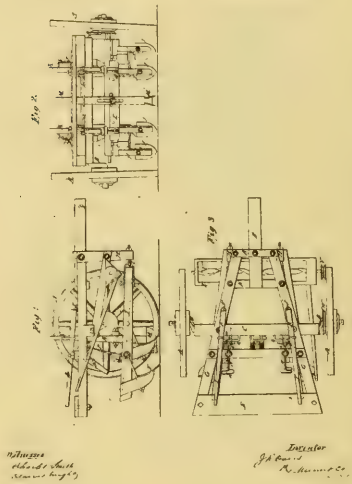
No. 40,909. Patented Dec. 15, 1863.



J. R. Davis.

Wheel Cultivator

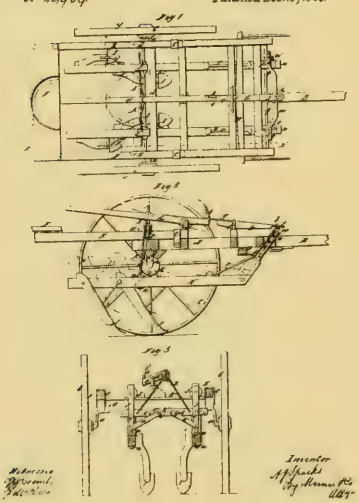
No. 40,915 Patented Dec. 15, 1863



A. J. Sparks.

Wheel Cultivator.

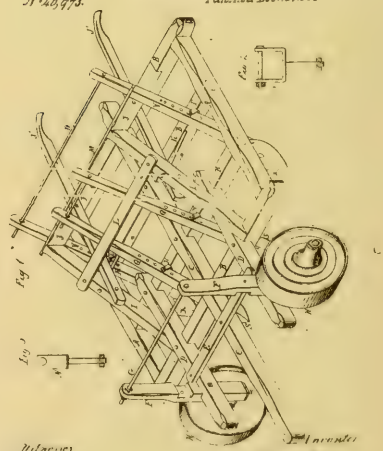
No. 40,959. Patented Dec. 15, 1863.



F. Pfeiffer

Wheel Cultivator

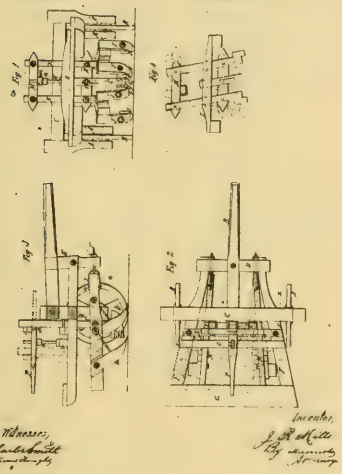
No. 40,973. Patented Dec. 15, 1863



J. R. Mills.

Wheel Cultivator.

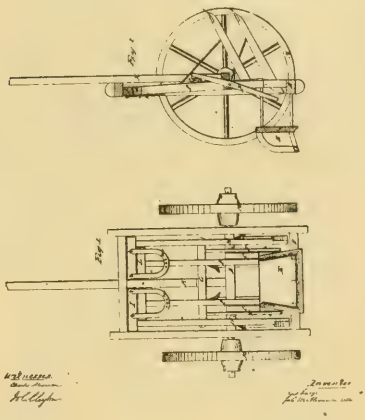
No. 41,086 Patented Jan. 5, 1864.



C. Large.

Wheel Cultivator.

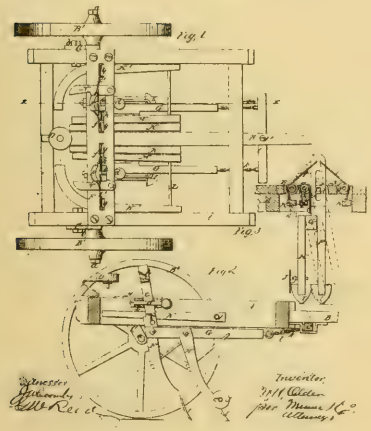
No. 41,169. Patented Jan. 5, 1864.



W. H. Older.

Wheel Cultivator.

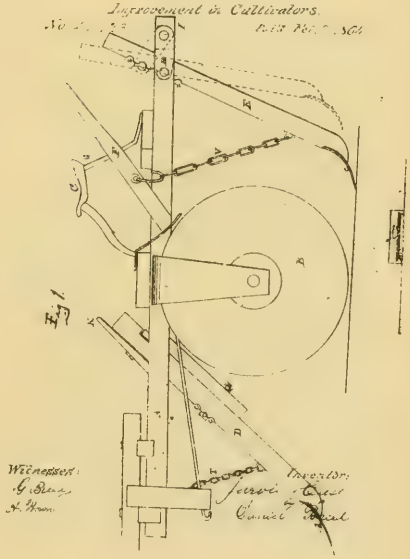
No. 41,389. Patented Jan. 26, 1864.



Jarvis Case.

Improvement in Cultivators.

No. [illegible] Patent No. [illegible] 1864



Jarvis Case.

Improvement in Cultivators.

No. 41,423. Patd. Feb. 2 1864

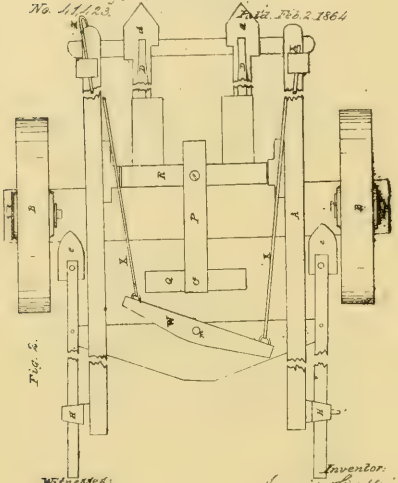


Fig. 2.

Witnesses:
G. Reed
A. Brown

Inventor:
Jarvis Case
Daniel G. Reed

Jarvis Case.

Improvement in Cultivators.

No. 41,423 Patd. Feb. 2 1864.

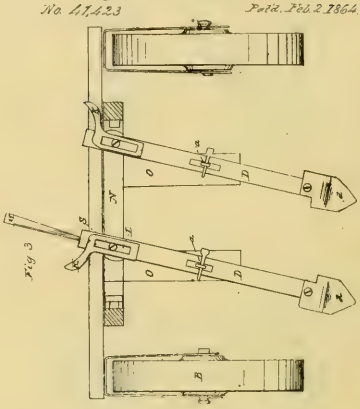


Fig 3

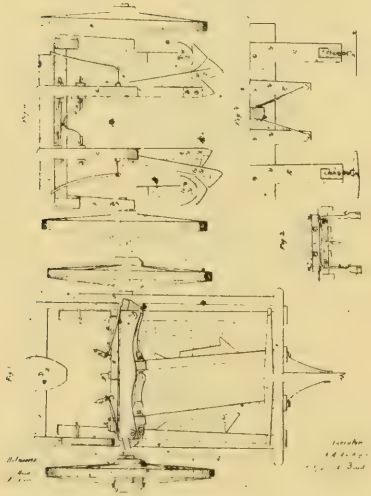
Witnesses:
G. Reed
A. Brown

Inventor.
Jarvis Case
Daniel G. Reed.

B. H. Hollings

Wheel Cultivator

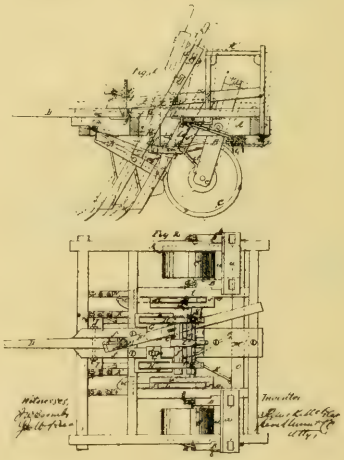
No. 41,235. Patented Feb. 2, 1864.



P. McGlew

Wheel Cultivator

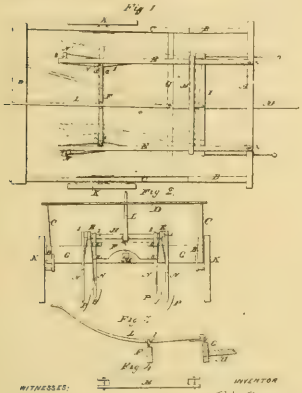
No. 44,523 Patented Feb. 9, 1864.



P. W. Thomson.

Wheel Cultivator.

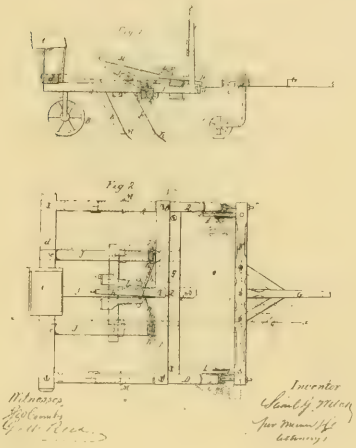
No. 41,550 Patented Feb. 9, 1864.



S. C. Welsh.

Wheel Cultivator.

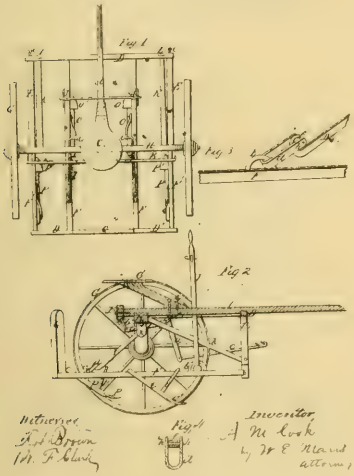
No. 41,555 Patented Feb. 2, 1864.



A. M. Cook.

Wheel Cultivator.

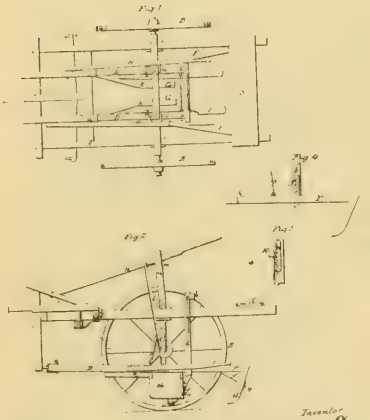
No. 41,569. Patented Feb. 9, 1864.



W. Furness.

Wheel Cultivator.

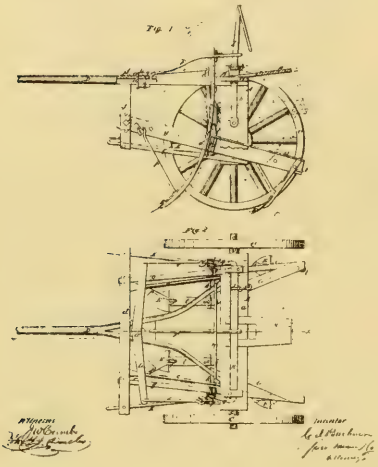
No. 41,614. Patented Feb. 16, 1864.



C. J. Buchner

Wheel Cultivator

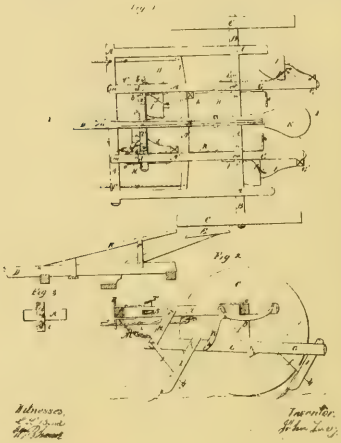
No. 41,677. Patented Feb. 23, 1864.



J. Lucey

Wheel Cultivator

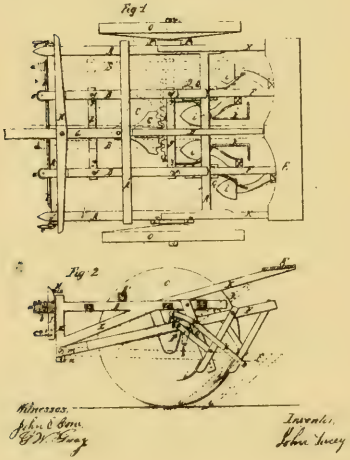
No. 41,700 Patented Feb. 23, 1864.



J. Lucey

Wheel Cultivator

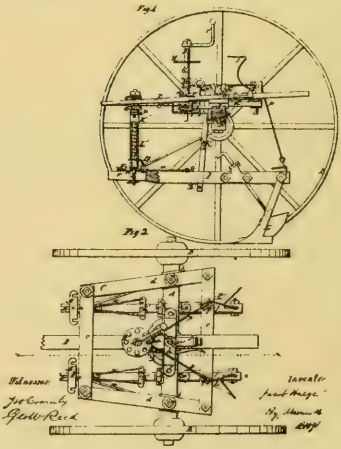
No. 41,743. Patented Feb. 23, 1864.



J. Hoege.

Wheel Cultivator

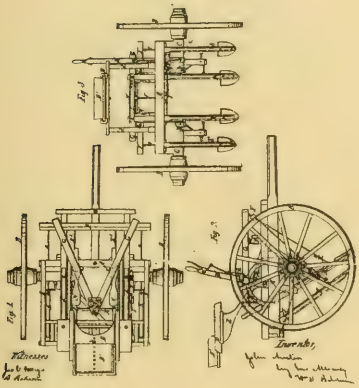
No. 41,749 Patented Mar. 1, 1864.



J. Austin

Wheel Cultivator.

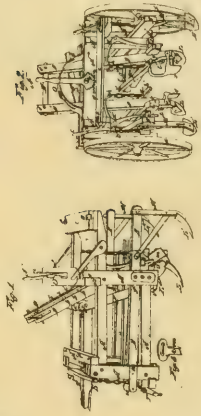
No. 42,997 Patented Mar. 15, 1864.



S. Sloan.

Wheel Cultivator.

No. 42,232. Patented Apr. 5, 1864.



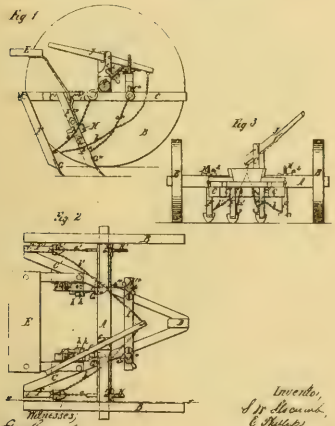
Witnesses
J. H. Wilson
Geo. Sanders

Inventor
Seymour Sloan

Slocumb & Phillips.

Wheel Cultivator.

No. 42,613. Patented Apr. 26, 1864.



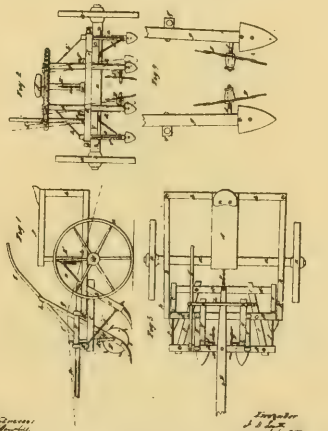
Witnesses,
Geo. Sloan,
John Rice

Inventors,
S. H. Slocumb,
E. Phillips
per Munn & Co
Attorneys

J. D. Smith.

Wheel Cultivator.

No. 42,614. Patented Apr. 26, 1864.



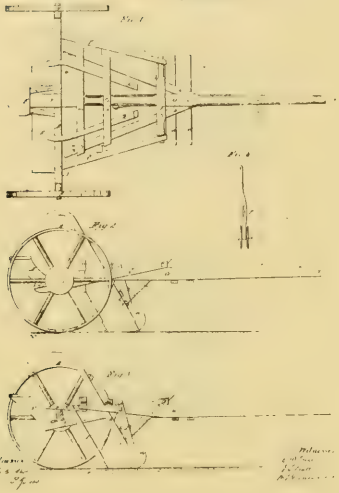
Witnesses
R. Wheeler
O. Edgar

Inventor
J. D. Smith
per Munn & Co
Attorneys

Dever & Pratt

Wheel Cultivator

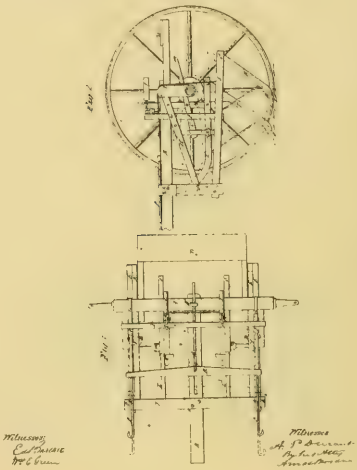
No. 42,616 Patented Apr. 12, 1864



A. P. Durant.

Wheel Cultivator

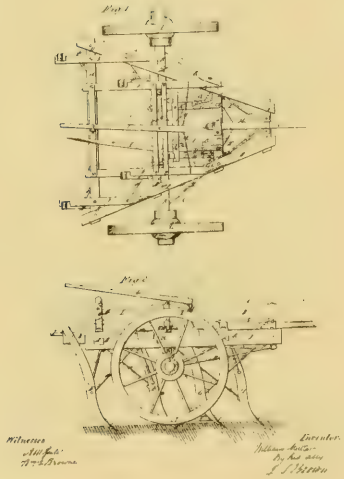
No. 42,938. Patented May 31, 1864.



W. Fletter

Wheel Cultivator

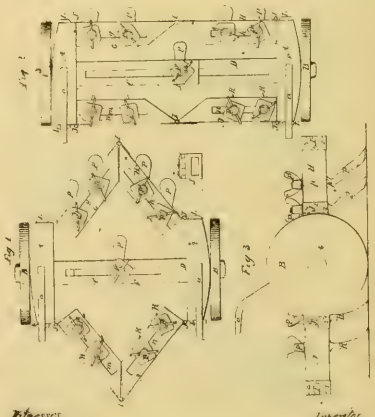
No. 43,143. Patented Jun. 14, 1864.



J. Williams.

Cultivator

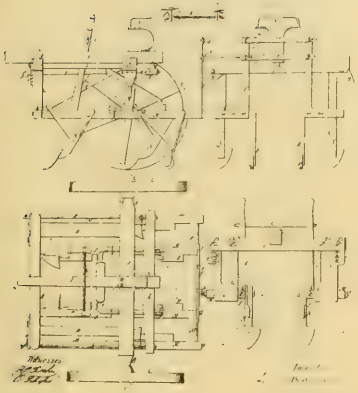
No. 43,249 Patented Jun. 21, 1864



I. B. Waterman.

Wheel Cultivator.

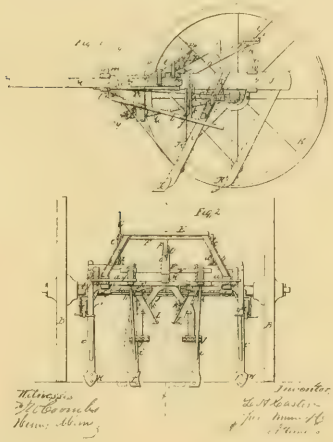
No. 43,569 Patented Jun. 21. 64



L. H. Classor.

Wheel Cultivator.

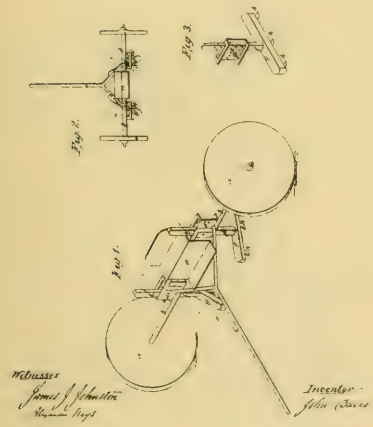
No. 45,298. Patented Nov. 28. 1865.



J. Davis.

Wheel Cultivator.

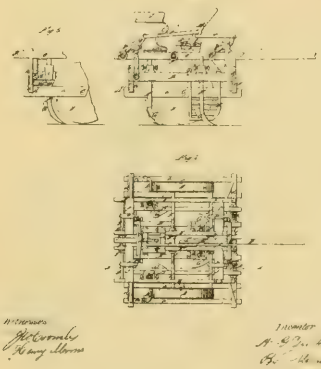
No. 43,395 Patented Jul. 5, 1864.



A. C. Tucker.

Wheel Cultivator.

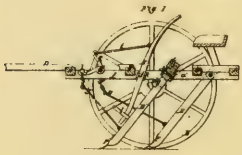
No. 3,421 Patented Jul. 5, 1844.

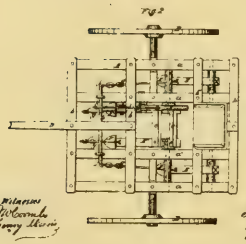


F. Barney.

Wheel Cultivator.

No. 43,470 Patented Jul. 12, 1864.





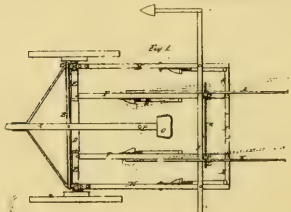
Witnesses
Geo. Coombs
Henry Morris

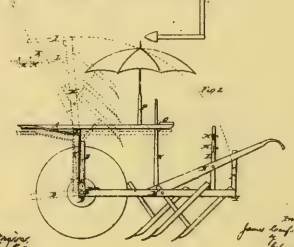
Inventor
Franklin Barney
per Munn & Co.
Attorneys

J. Canfield.

Wheel Cultivator.

No. 43,635 Patented Jul. 26, 1864.





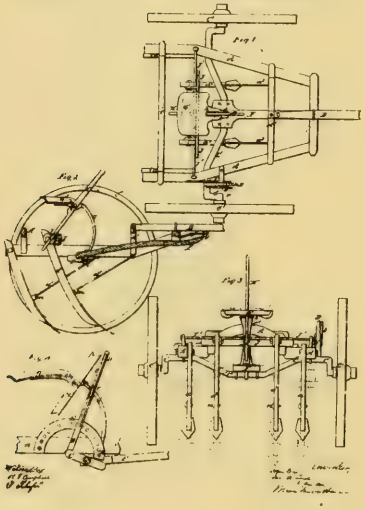
Witnesses
C. H. Fox
C. Dunn

Inventor
James Canfield
by Fisher & Dunn
Attorneys

Cox & Throp.

Wheel Cultivator.

No. 43,836. Patented Aug. 16, 1864.



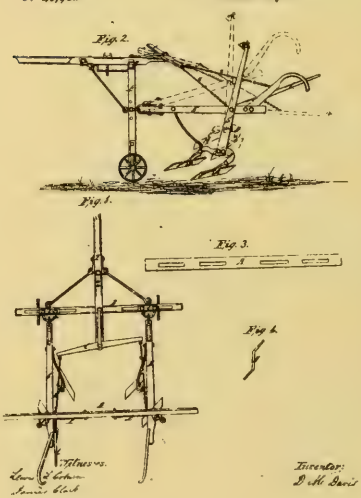
Witnesses
E. Fisher
O. Hoff

Inventor
Thos. Throp
per Munn & Co.
Their Attorneys

D. M. Davis.

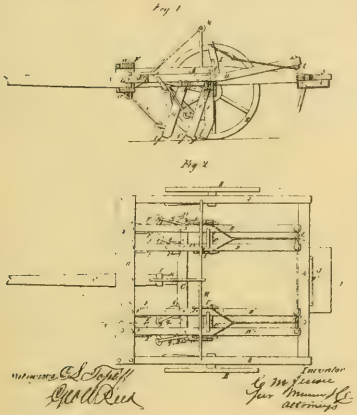
Wheel Cultivator.

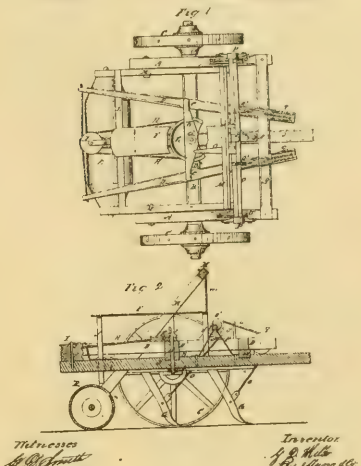
No. 43,901. Patented Aug. 23, 1864.

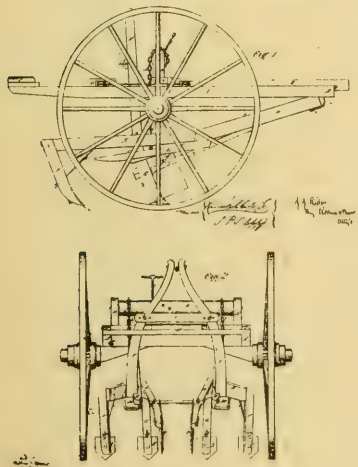


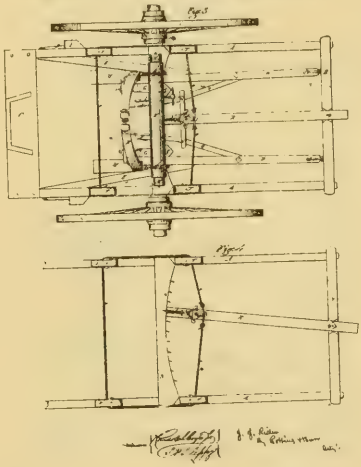
Witnesses.
Geo. E. Fisher
Jeremiah Clark

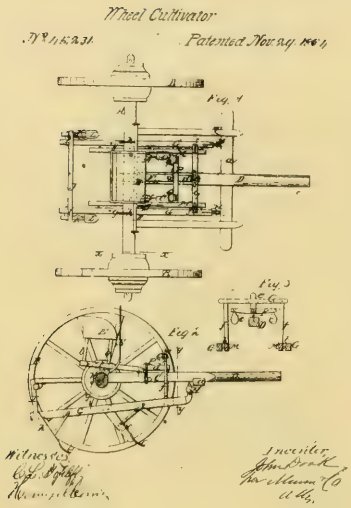
Inventor:
D. M. Davis

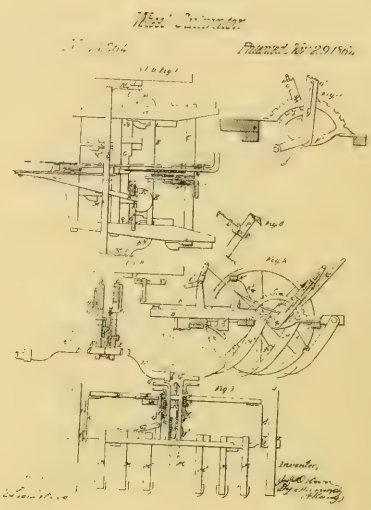


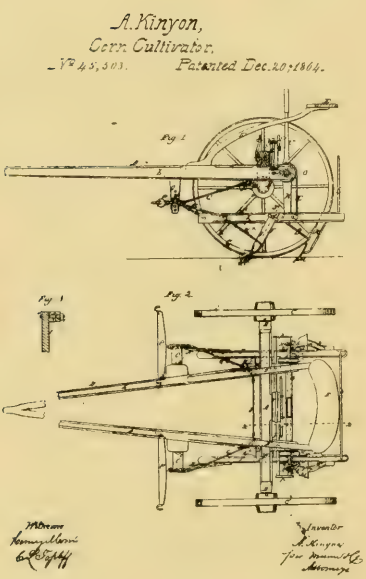

C. D. Miller.
Wheel Cultivator
Patented Nov 15, 1864
Fig 1
No 2
Witnesses
Inventor

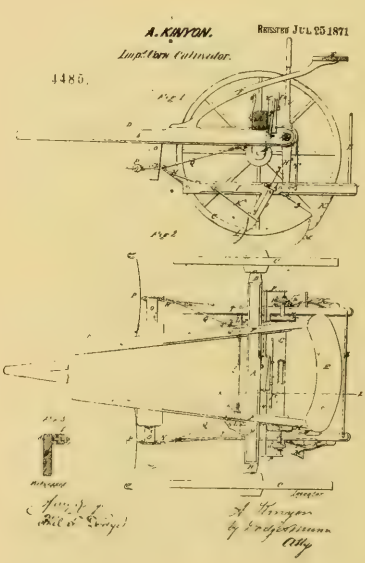

J. J. Rider,
2 Sheets Sheet 1.
Wheel Cultivator.
No. 45,171.
Patented Nov. 22. 1864.
Fig 1
Fig 2


J. J. Rider,
2 Sheets Sheet 2
Wheel Cultivator.
No. 45,171.
Patented Nov. 22. 1864.
Fig 3
Fig 4


J. Dock.
Wheel Cultivator.
Patented Nov. 29, 1864.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
John Dock
Per Munn & Co
Attys.


Patented Nov. 29, 1864.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Inventor

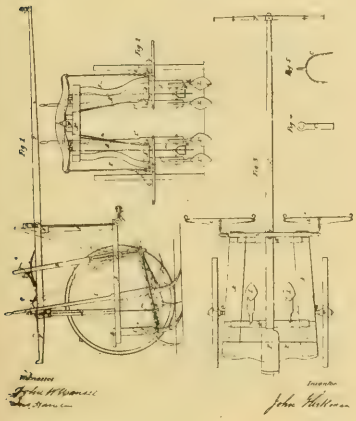

A. Kinyon,
Corn Cultivator.
No. 45,303.
Patented Dec. 20, 1864.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
A. Kinyon
Per Munn & Co
Attorneys


A. KINYON.
Reissued Jul. 25 1871
Implement Cultivator.
No. 4485.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
A. Kinyon
by Dodge & Sons
Attys

J. Wirkman.

Wheel Cultivator

No. 45,615 Patented Dec. 27, 1864.



Witnesses

Inventor

John Wirkman

J. Barber, Jr.

Wheel Cultivator.

No. 45,687 Patented Jan. 3, 1865.

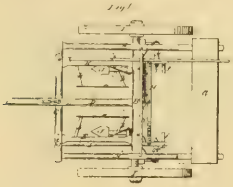


Fig. 3

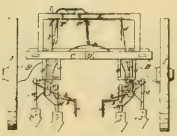
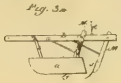


Fig. 3a



Witnesses.

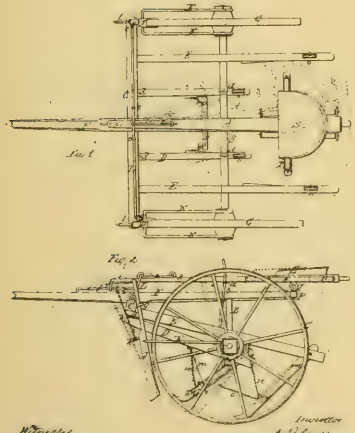
Inventor.

Jno. Barber Jr.

A. B. Cass.

Wheel Cultivator

No. 45,700 Patented Jan. 3, 1865.



Witnesses

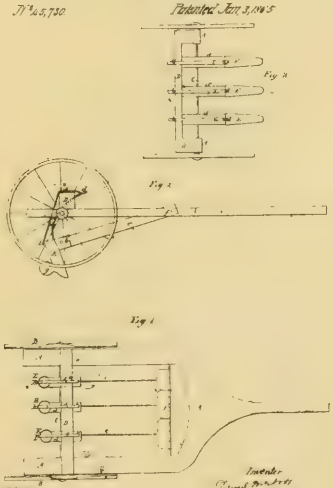
Inventor

A. B. Cass

D. McNab.

Wheel Cultivator

No. 45,730 Patented Jan. 3, 1865



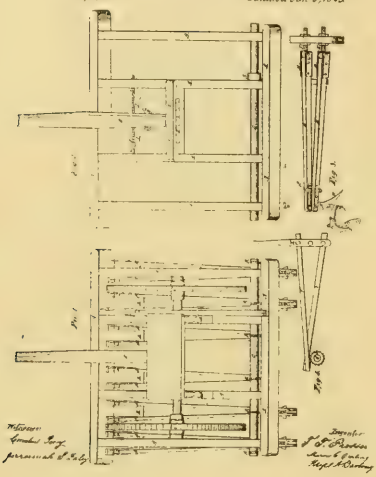
Witnesses

Inventor

T. T. Prosser & M. C. & N. A. Darling

Wheel Cultivator

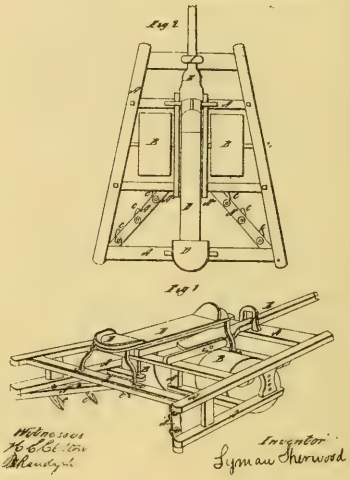
No. 45,750. Patented Jan. 3, 1865.



L. Sherwood.

Wheel Cultivator.

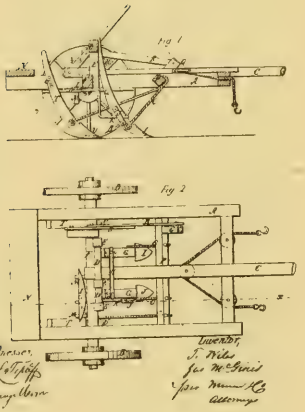
No. 45,751. Patented Jan. 3, 1865.



Miles & McGinnis

Wheel Cultivator.

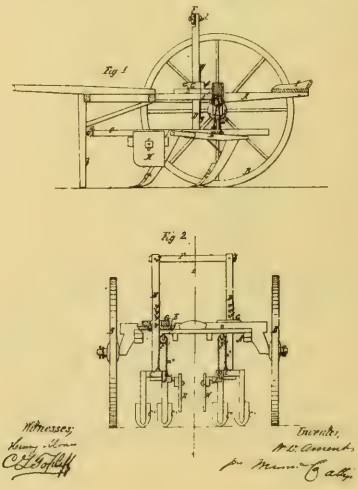
No. 45,782. Patented Jan. 3, 1865.



W. D. Siment

Wheel Cultivator.

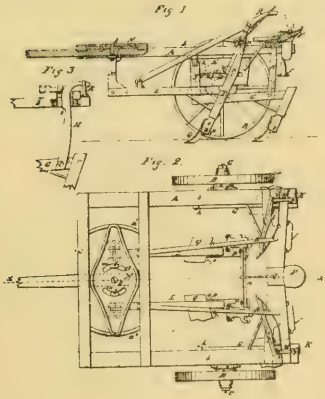
No. 45,807. Patented Jan. 10, 1865.



A. Keck.

Wheel Cultivator.

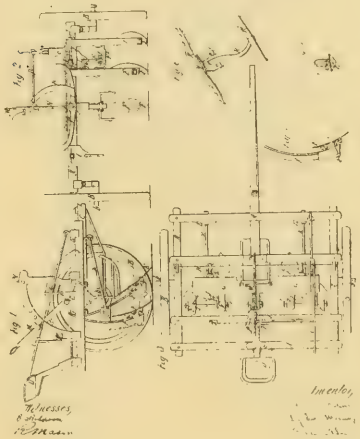
No. 45,883. Patented Jan. 10, 1865.



C. Roberts.

Wheel Cultivator.

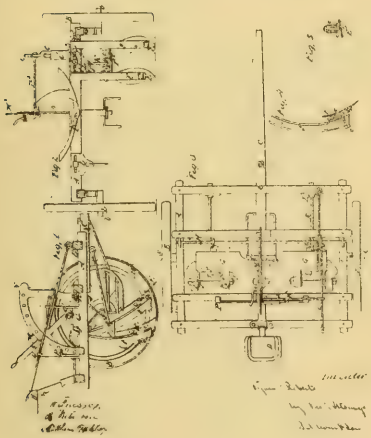
No. 45,860. Patented Jan. 10, 1865



C. Roberts.

Wheel Cultivator.

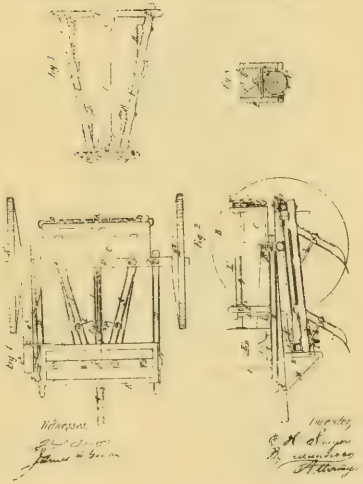
No. 45,861. Patented Jan. 10, 1865.



E. H. Sawyers

Wheel Cultivator.

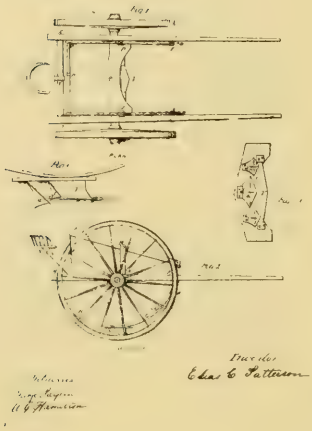
No. 45,860 Patented Jan. 10, 1865



E. C. Patterson.

Wheel Cultivator.

No. 45,931. Patented Jan. 17, 1865.



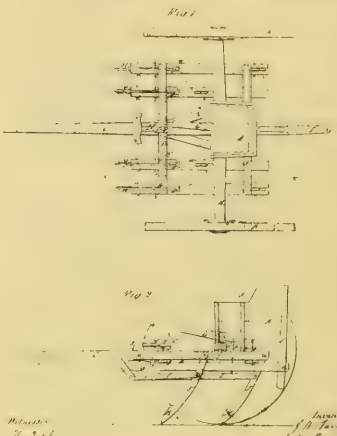
Inventor
Chas. C. Patterson

Witnesses
Geo. Hopson
W. C. Hamilton

J. W. Fowler.

Wheel Cultivator.

No. 46,987. Patented Mar. 21, 1865.



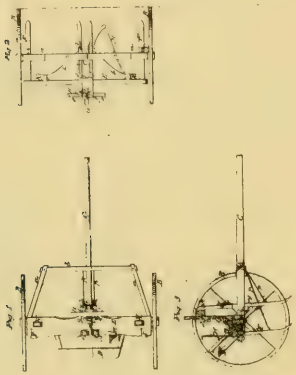
Witnesses
Geo. Sutch
W. [illegible]

Inventor
J. W. Fowler
per Thomas Allen
Atty.

J. Litzen.

Wheel Cultivator.

No. 46,116. Patented Jan. 31, 1865.



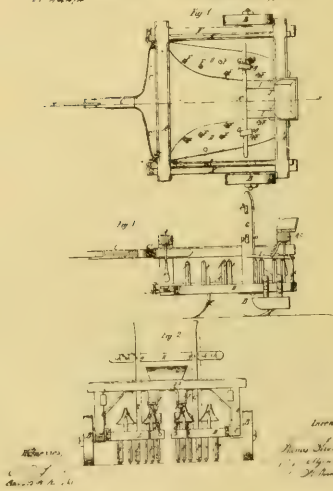
Witnesses
Chas. Church
E. F. Schiff

Inventor
Jos. Litzen
per Thomas Allen
Attorney

T. Short.

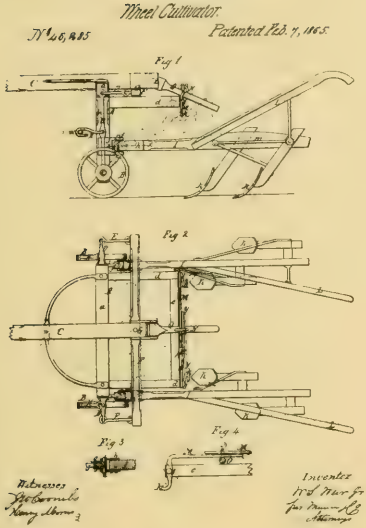
Wheel Cultivator and Harrow.

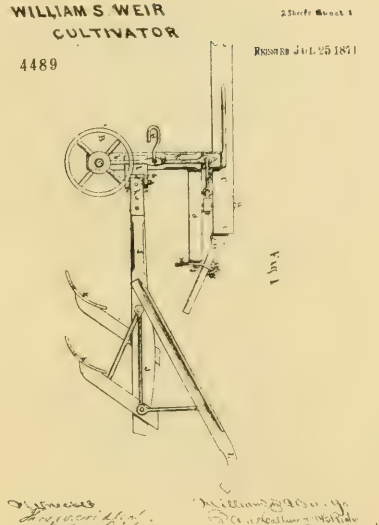
No. 46,472. Patented Feb. 7, 1865.

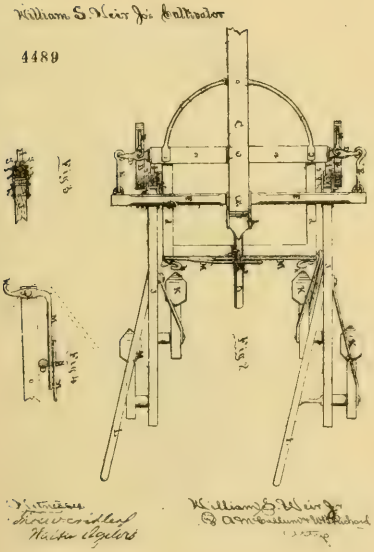


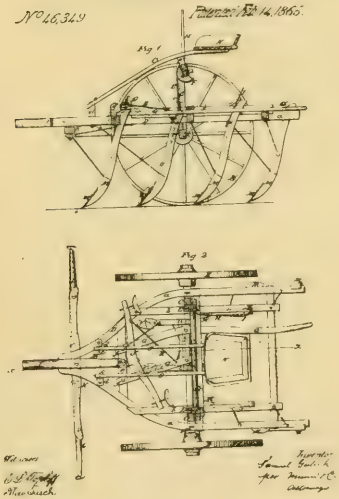
Witnesses

Inventor,
Thomas Short
per Thomas Allen
Attorney


W. S. Weir, Jr.
Wheel Cultivator
No. 46,435
Patented Feb. 7, 1865.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses
Inventor


WILLIAM S. WEIR
CULTIVATOR
4489
Reissued Jul. 25 1871
Fig. 1

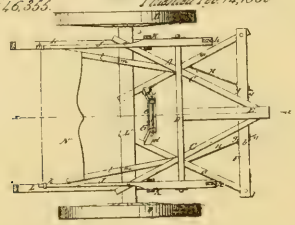

William S. Weir Jr. Cultivator
4489
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses
Walter Ogilvie

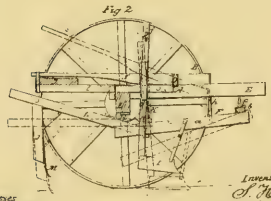

S. Corlett
Wheel Cultivator
No. 46,319
Patented Jan. 14, 1865.
Fig. 1
Fig. 2

S. Henry.

Wheel Cultivator.

No. 46,355. Patented Feb. 14, 1865.





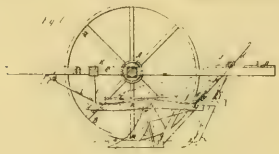
Witnesses
R. S. Lofgoff
Henry Morris

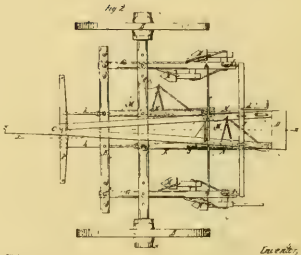
Inventor
S. Henry
By J. Munn & Co
Attys

S. H. Mitchell.

Wheel Cultivator.

No. 46,378 Patented Feb. 14, 1865.





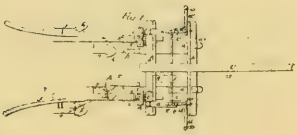
Witnesses
Henry Morris
J. H. Wernicke

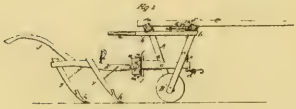
Inventor
S. H. Mitchell
per Munn & Co
Attorneys

I. H. Palmer.

Wheel Cultivator.

No. 46,313 Patented Feb. 14, 1865.





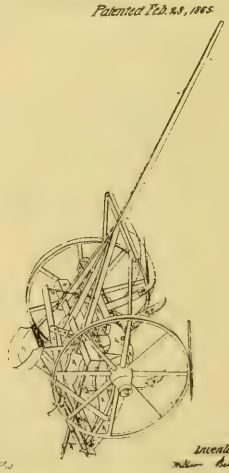
Witnesses
Wm. H. Van
Geo. Tuck

Inventor
Isaac H. Palmer
per Munn & Co.
Attorneys

W. Bankson.

Wheel Cultivator.

No. 46,538 Patented Feb. 28, 1865.



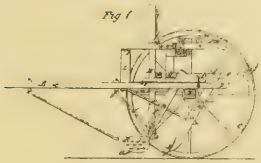
Witnesses
Wm. Anderson
Geo. Hall

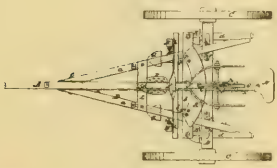
Inventor
William Bankson

Given, Hutsonpiller & Gilbert.

Wheel Cultivator.

No. 46,657 Patented Mar. 7, 1865





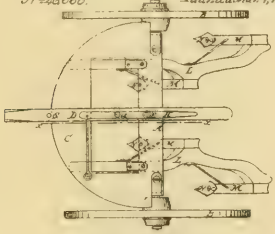
Witnesses:

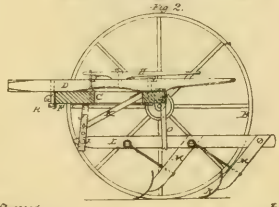
Inventors

L. D. Humphrey.

Wheel Cultivator.

No. 46,666. Patented Mar. 7, 1865.





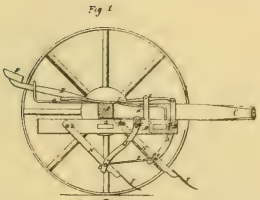
Witnesses:

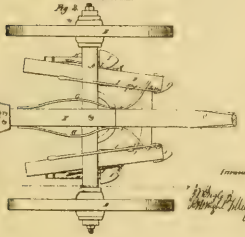
Inventor:

Ingle & Wright.

Wheel Cultivator.

No. 46,675. Patented Mar. 7, 1865.





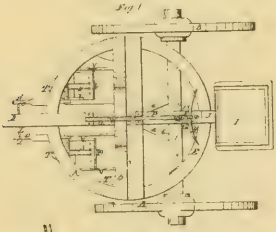
Witnesses

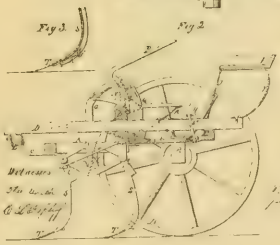
Inventor

T. W. Harrison.

Wheel Cultivator.

No. 46,752. Patented Mar. 7, 1865.





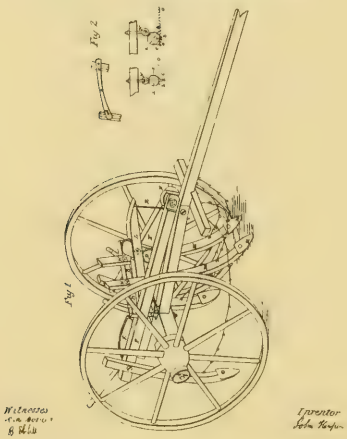
Witnesses

Inventor

J. Harper.

Wheel Cultivator.

No. 47,016. Patented Mar. 28, 1865.



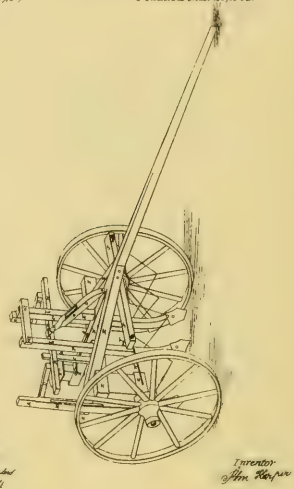
Witnesses

Inventor John Harper

J. Harper.

Wheel Cultivator.

No. 47,017. Patented Mar. 28, 1865.



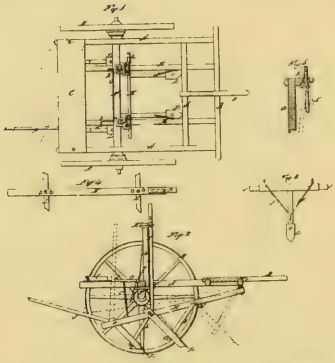
Witnesses

Inventor John Harper

Thomas & Hoot

Wheel Cultivator.

No. 47,055. Patented Mar. 28, 1865.



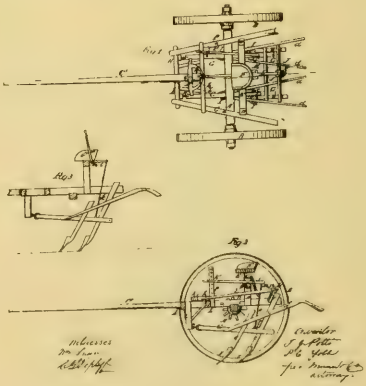
Witnesses:

Inventors

Pell & Yost

Wheel Cultivator.

No. 47,332. Patented Apr. 18, 1865.



Witnesses

Inventors

L. S. Foster

Wheel Cultivator

No. 47,330 Patented Apr. 25, 1865

Fig 1

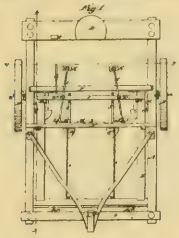


Fig 2

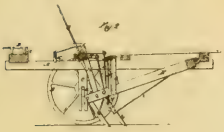
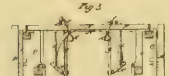


Fig 3



Witnesses

Inventor

Phillips & Fowler

Wheel Cultivator

No. 47,569 Patented May 2, 1865.

Fig 1

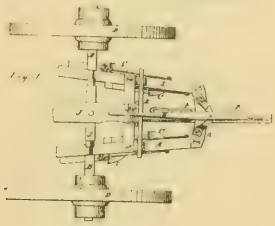
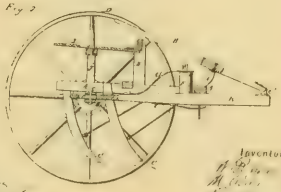


Fig 2



Witnesses

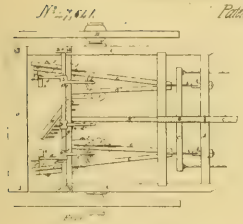
Inventors

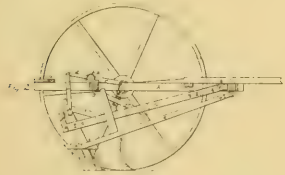
Sheet 1. 2 Sheets

J. Hollingsworth.

Wheel Cultivator.

No. 47,641 Patented May 9, 1865





Witnesses

Inventor

Sheet 2. 2 Sheets

J. Hollingsworth.

Wheel Cultivator.

No. 47,641. Patented May 9, 1865.

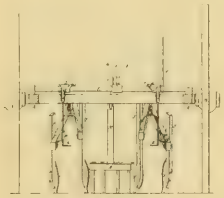


Fig 1

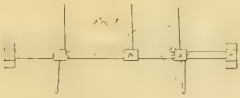


Fig 3

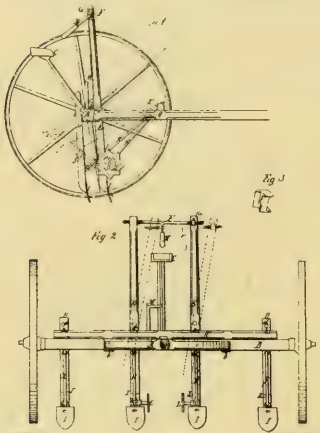
Witnesses

Inventor

J. Mills.

Wheel Cultivator.

No. 47,655. Patented Apr. 9, 1865.



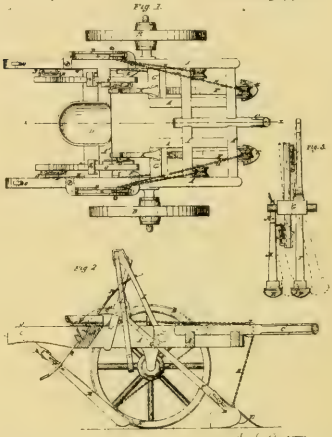
Witnesses,
E. M. McCall,
P. J. Dodge.

Inventor,
Joseph Mills
By Smith & Dodge
Attys.

W. E. Bates.

Wheel Cultivator.

No. 47,693. Patented Apr. 18, 1865.



Witnesses — C. E. Brown
Chas. A. G. Howard

Inventor — W. E. Bates
By [illegible]
Attorney

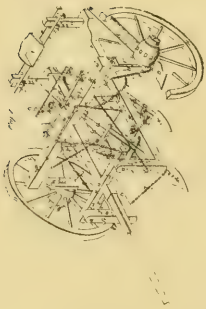
Sheet 1, N. Sheets.

Sheet 1, N. Sheets.

J. Brewer.

Wheel Cultivator.

No. 47,690 Patented May 16, 1865.



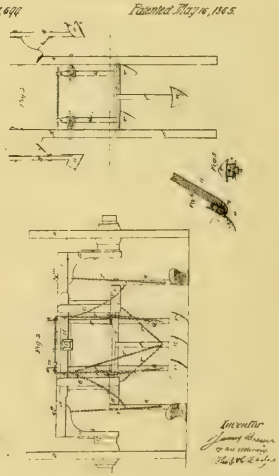
Witnesses
[illegible]

Inventor
James Brewer
By his attorney
Wm. H. Dodge

J. Brewer

Wheel Cultivator.

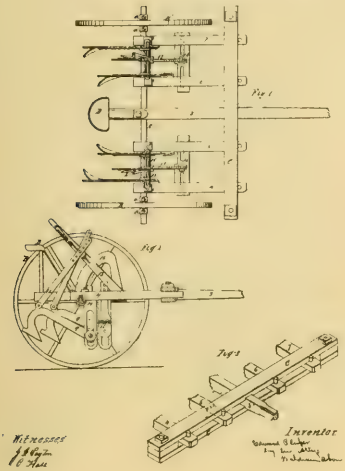
No. 47,690 Patented May 16, 1865.



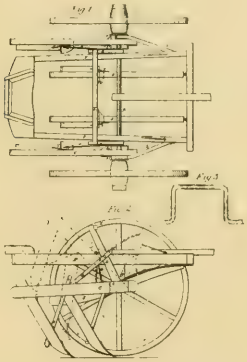
Witnesses
[illegible]

Inventor
James Brewer
By his attorney
Wm. H. Dodge

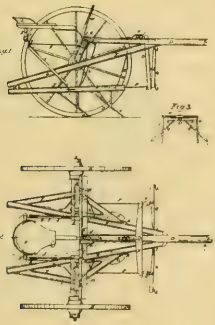
F. Pryer.
Wheel Cultivator.
No. 47,904. Patented May 23, 1865.



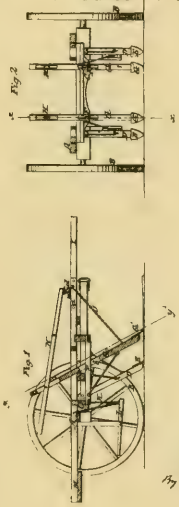
S. G. Haring
Wheel Cultivator.
No. 48,066 Patented June 6, 1865.



H. Howe
Wheel Cultivator.
No. 48,068. Patented Jun. 6, 1865.



W. C. Savage
Wheel Cultivator.
No. 48,102. Patented Jun. 6, 1865.



E. S. Gillies

Wheel Cultivator.

No. 48,271. Patented Jun. 20, 1865.

Fig 1

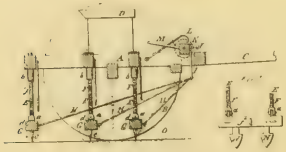
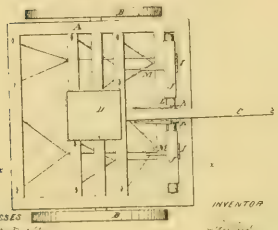


Fig 2



WITNESSES

INVENTOR

Sheet 2. Sheets.

Holtz & Enoch

Wheel Cultivator

No. 48,829. Patented Jun. 20, 1865.

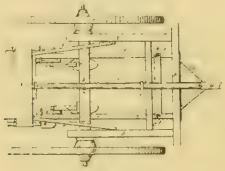
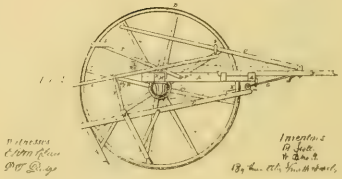


Fig 3



Witnesses

Inventors

Sheet 2. Sheets.

C. Roberts

Wheel Cultivator

No. 48,445. Patented Jun. 27, 1865.

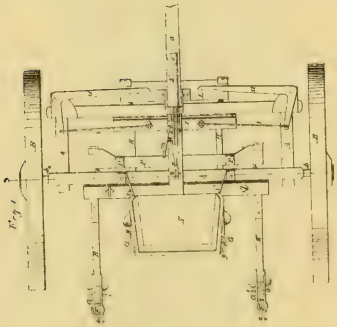


Fig 1

Witnesses

Inventor

C. Roberts

Wheel Cultivator

No. 48,445. Patented Jun. 27, 1865.

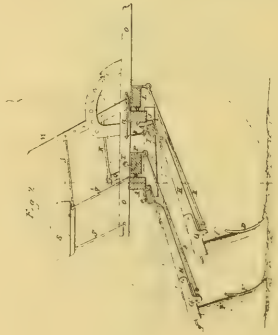
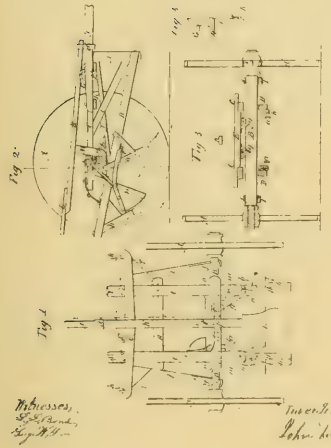


Fig 2

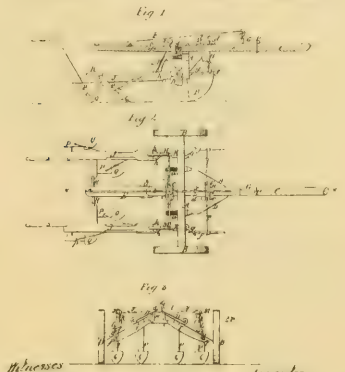
Witnesses

Inventor

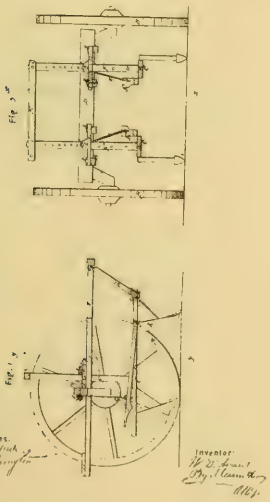
J. Harey.
Wheel Cultivator.
No. 48,627. Patented July 4, 1865.



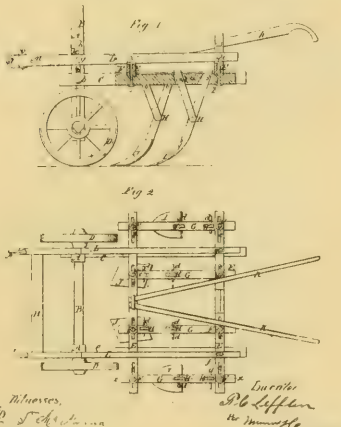
C. M. Jenne.
Wheel Cultivator.
No. 48,817. Patented Jul. 18, 1865.

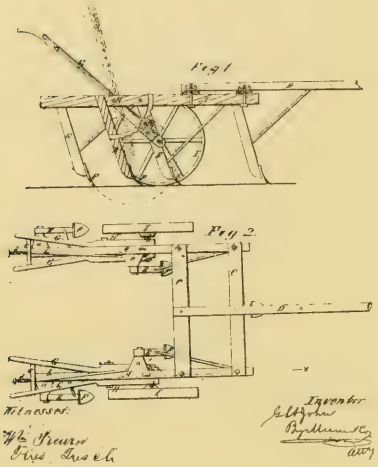


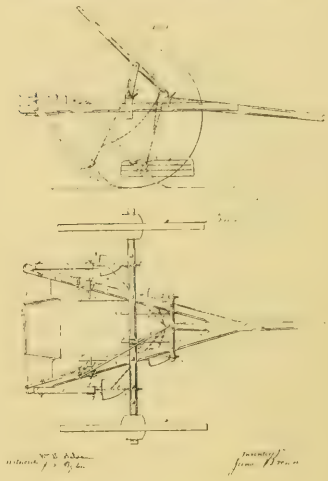
W. D. Ament.
Cultivator.
No. 48,554. Patented July 25, 1865.

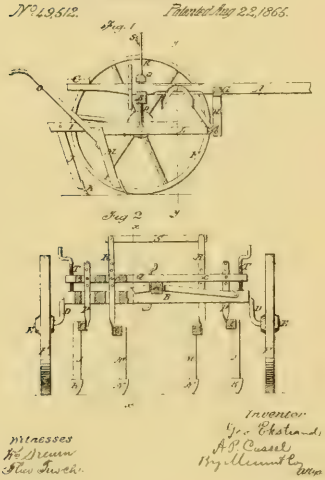


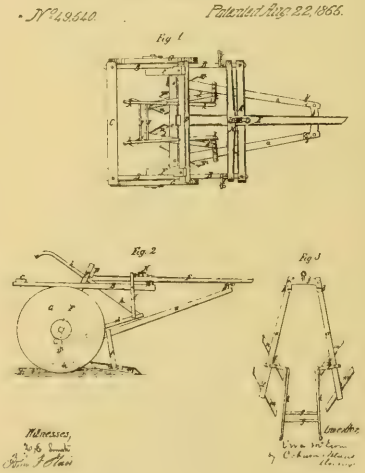
F. C. Leffler.
Wheel Cultivator.
No. 48,954. Patented Jul. 25, 1865.

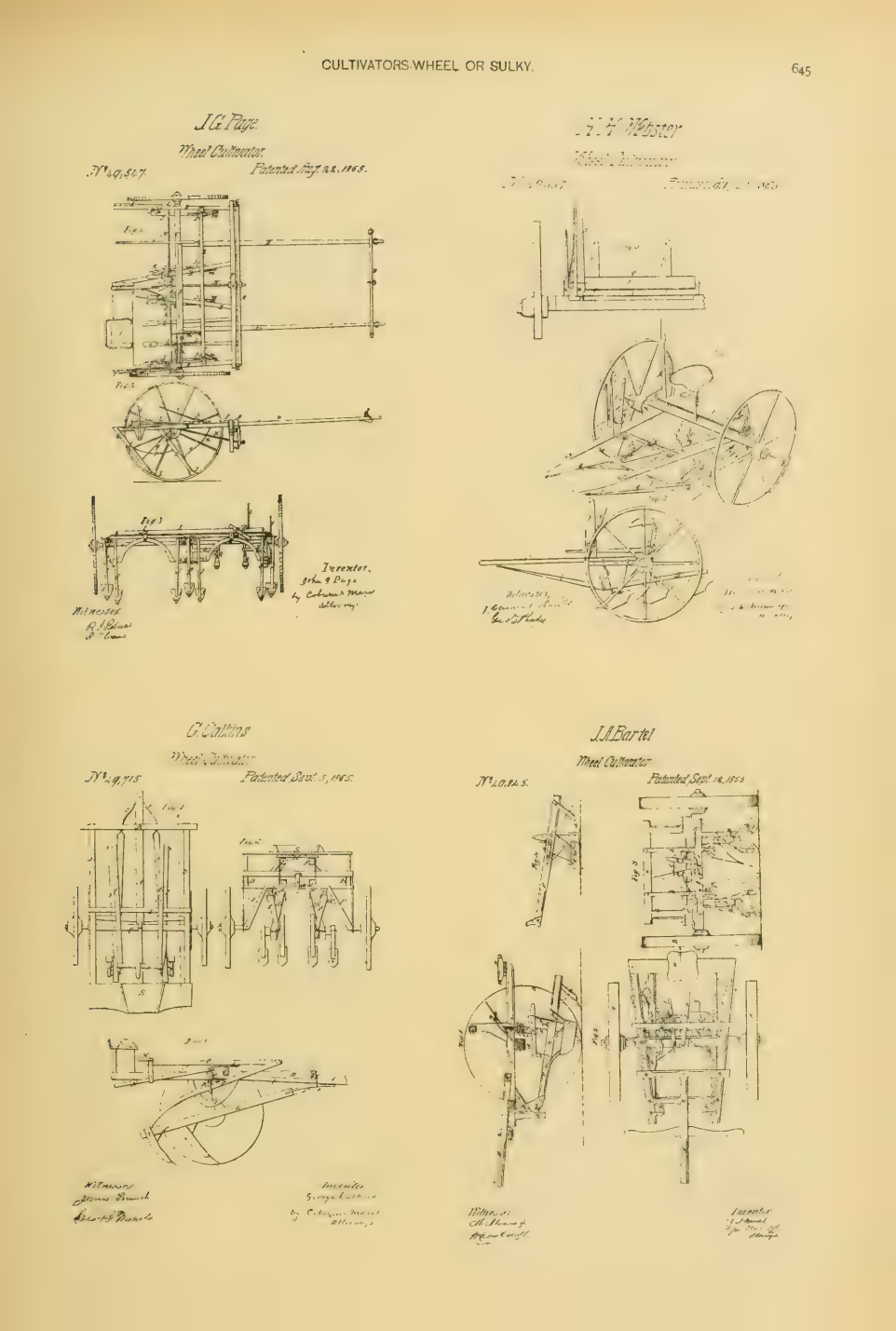



Wheel Cultivator
Fig 1
Fig 2
Witnesses
Inventor


Wheel Cultivator
Patented Aug 1, 1865


Ekstrand & Cassel
Wheel Cultivator
Patented Aug 22, 1865
Fig 1
Fig 2
Witnesses
Inventors

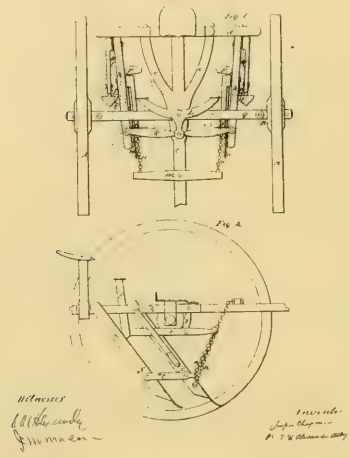

E. McErvin
Wheel Cultivator
Patented Aug 22, 1865
Fig 1
Fig 2
Fig 3
Witnesses


J. G. Page.
Wheel Cultivator.
No. 49,917.
Patented Sept. 26, 1865.
Fig. 1.
Fig. 2.
Fig. 3.
Inventor,
John G. Page
by Coburn & Maynard
Attorneys.
Witnesses
J. Glenn
J. Crane
J. H. Webster
Wheel Cultivator
Patented Oct. 1, 1865
Fig. 1
Fig. 2
Fig. 3
Witnesses,
J. Glenn
J. Crane
G. Collins
Wheel Cultivator
No. 49,715
Patented Sept. 5, 1865.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Henry Pennock
Geo. H. Daniels
Inventor
George Collins
by Coburn & Maynard
Attorneys
J. A. Bartel
Wheel Cultivator
No. 50,845.
Patented Sept. 12, 1865
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses
C. H. Shaw
Jr.
A. M. Cowell
Inventor
J. A. Bartel
per Thos. G. Hodges

J. Chapman.

Wheel Cultivator.

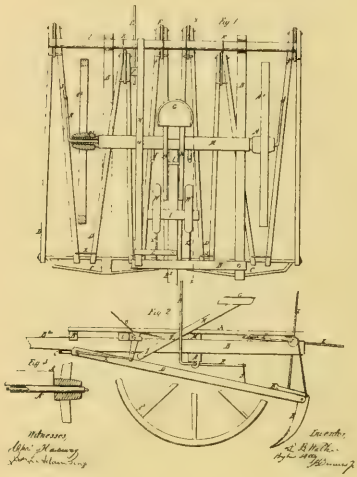
No. 49,856 Patented Sept. 12, 1865



I. B. Walker.

Wheel Cultivator.

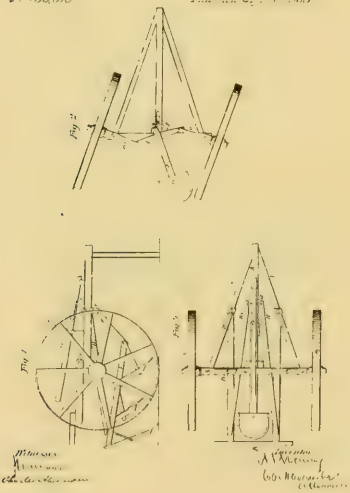
No. 49,932 Patented Sept. 12, 1865.



A. J. Murray.

Wheel Cultivator.

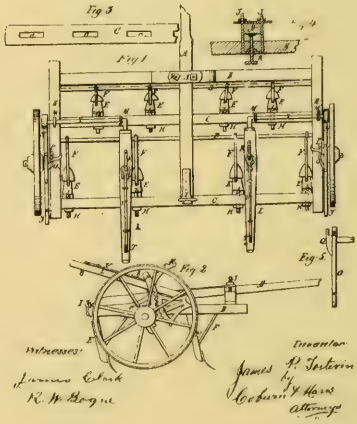
No. 50,018 Patented Sept. 19, 1865



J. P. Tostevin.

Wheel Cultivator.

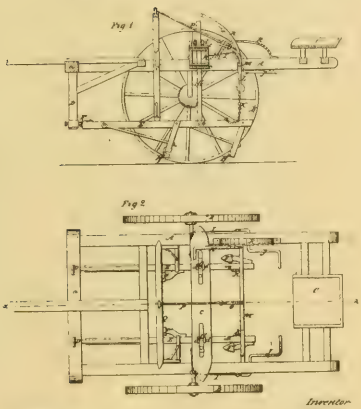
No. 50,052. Patented Sept. 19, 1865.



W. H. L. Hump

Wheel Cultivator

No. 50,141. Patented Sept. 26, 1865.



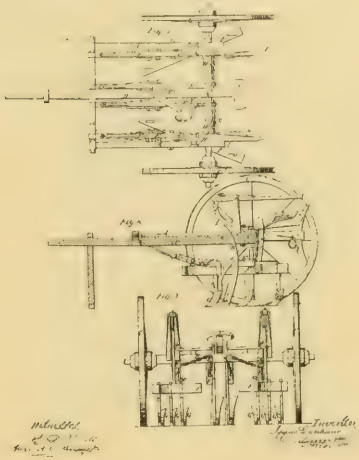
Witnesses
Thos. Leach
Wm. Orrell

Inventor
W. H. L. Hump
By Munn & Co.
Attorneys

J. Denham

Wheel Cultivator

No. 50,229. Patented Oct. 3, 1865.



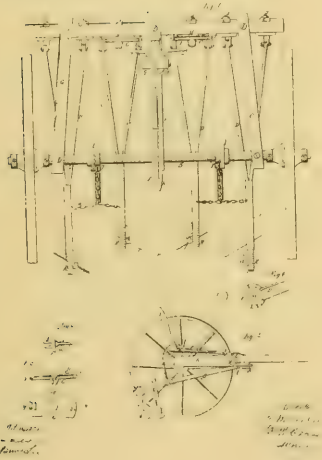
Witnesses

Inventor

R. McCorkell

Wheel Cultivator

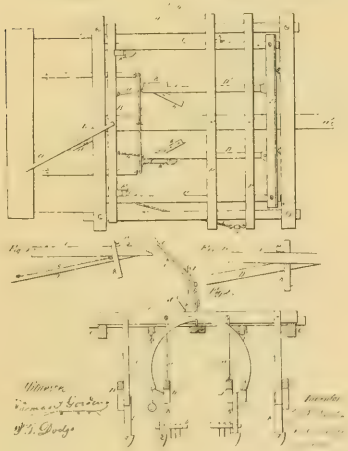
No. 50,257. Patented Oct. 3, 1865.



L. B. Barton

Wheel Cultivator

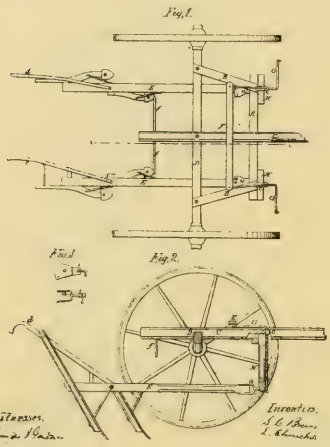
Patented [illegible]



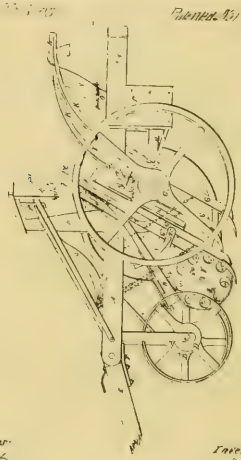
Witnesses
Thomas Harding
W. S. Dodge

Inventor

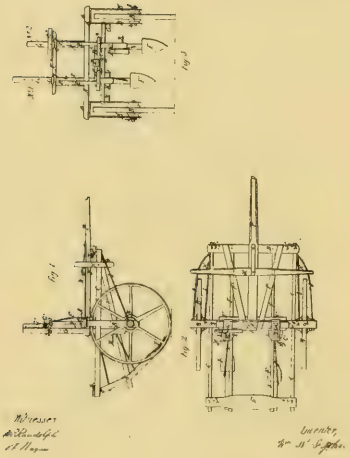
Churchill & Brewer
Wheel Cultivator
No. 50,453. Patented Oct. 17, 1865



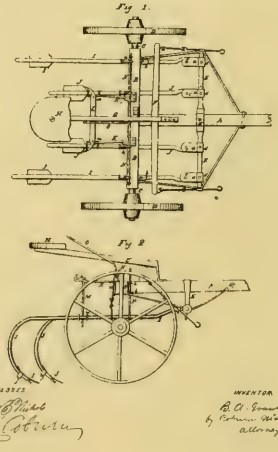
J. Ferguson
Wheel Cultivator
Patented Nov. 21, 1865



W. W. St. John.
Wheel Cultivator
No. 51,076. Patented Nov. 21, 1865



B. A. Grant.
Wheel Cultivator
No. 51,506. Patented Dec. 5, 1865.



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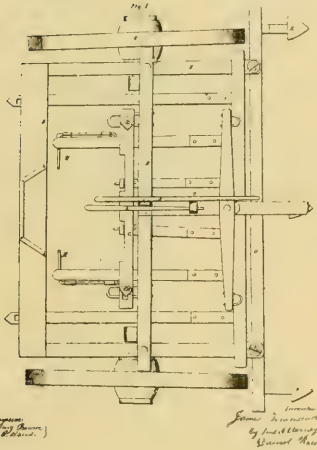
J. Townsend.

Wheel Cultivator.

No. 51,365. Patented Dec. 5, 1865.



Witnesses: Thos. Thorn, Roland.

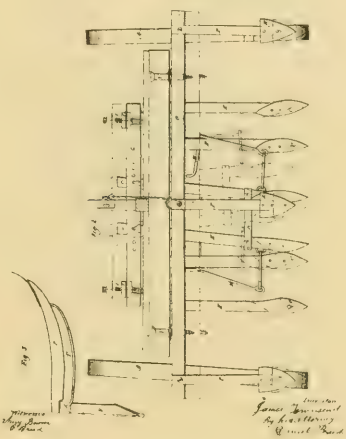
Inventor: James Townsend, by his Attorney, Samuel Reed.

Sheet 2, 2 Sheets.

J. Townsend.

Wheel Cultivator.

No. 51,365. Patented Dec. 5, 1865.



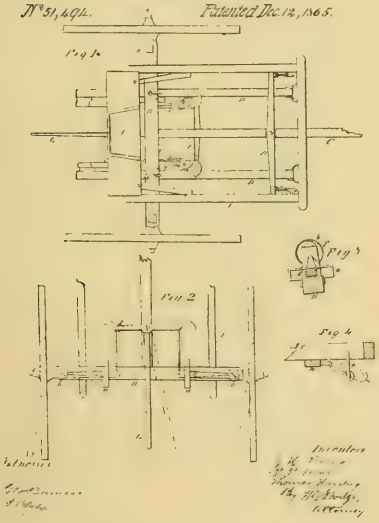
Witnesses: Thos. Thorn, Roland.

Inventor: James Townsend, by his Attorney, Samuel Reed.

Thomas, Mast & Harding.

Wheel Cultivator.

No. 51,491. Patented Dec. 12, 1865.



Witnesses: [illegible]

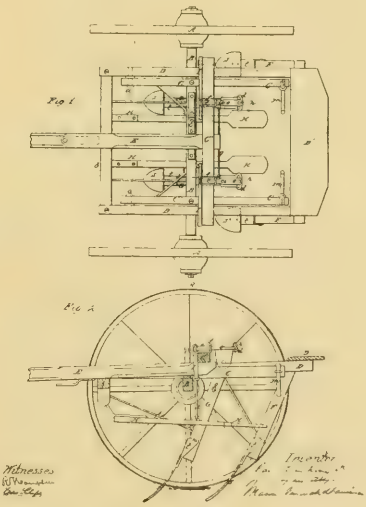
Inventors: [illegible] Thomas Harding, by H. Bridge, Attorney.

J. Armstrong, Jr.

Sheet 1, 2 Sheets.

Cultivator.

No. 51,680. Patented Dec. 26, 1865.



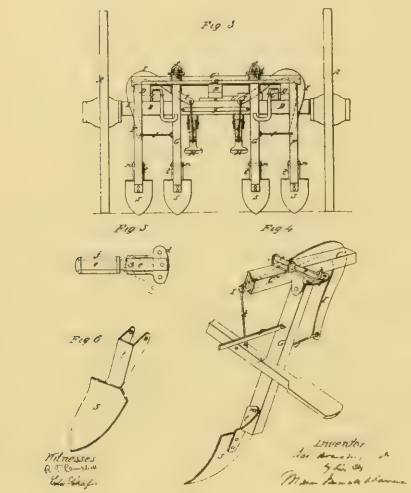
Witnesses: [illegible]

Inventor: [illegible]

J. Armstrong, Jr. Sheet 2 Sheets

Cultivator

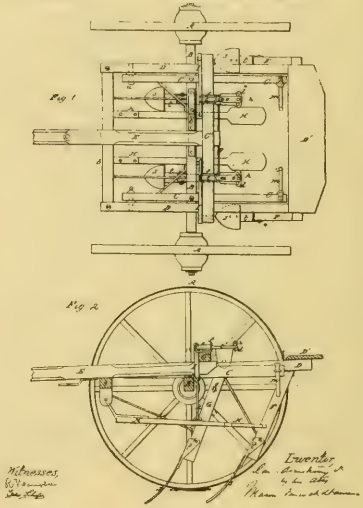
No. 51,650. Patented Dec. 26, 1865



J. Armstrong, Jr. Sheet 1 2 Sheets

Cultivator

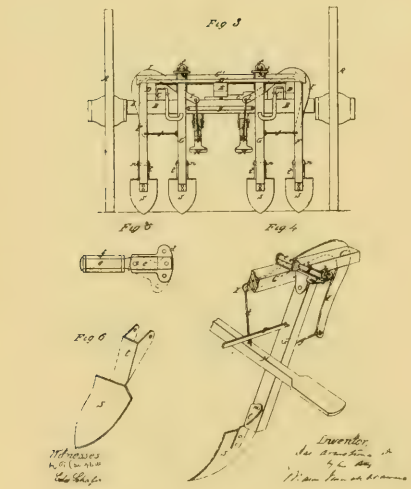
No. 3,349. Reissued Mar. 30, 1869



J. Armstrong, Jr. Sheet 2 2 Sheets

Cultivator

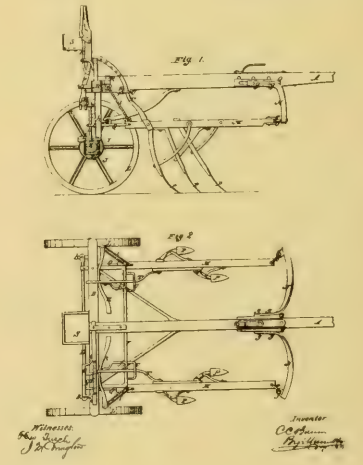
No. 3,349. Reissued Mar. 30, 1869



C. C. Baum.

Wheel Cultivator.

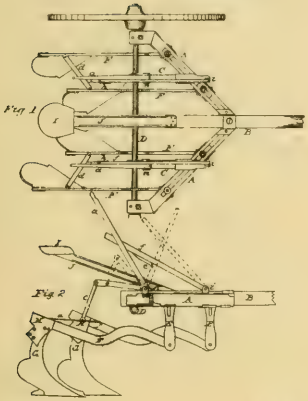
No. 51,682. Patented Dec. 26, 1865.



W. H. Howell.

Wheel Cultivator.

No. 51,721. Patented Dec. 26, 1865.



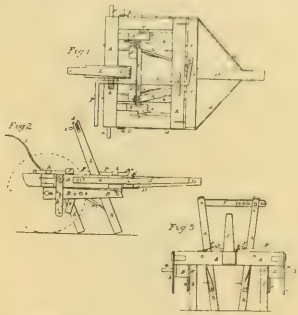
Witnesses:
Thomas J. Gantner
Fitz Dodge.

Inventor
Wm. H. Howell
By W. E. Bangs
Atty.

C. L. Hutchinson.

Wheel Cultivator.

No. 52,049. Patented Jan. 16, 1866.



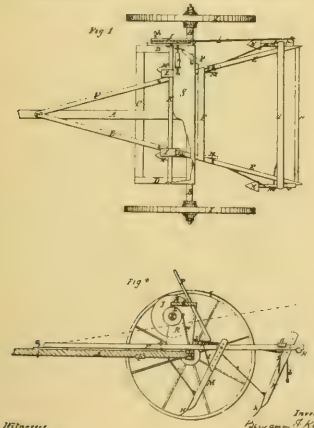
Witnesses
M. M. Bennings
J. W. McClelland.

Inventor
C. L. Hutchinson

R. F. Kessler.

Wheel Cultivator.

No. 52,053 Patented Jan. 16, 1866.



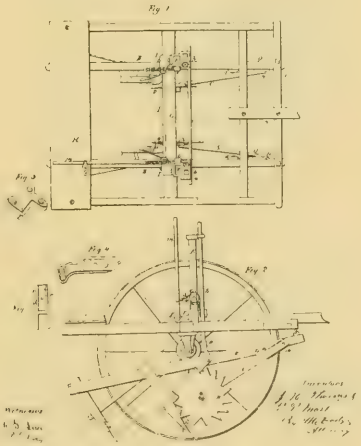
Witnesses
A. W. Springer.
H. W. Ashfield

Inventor
Benjamin F. Kessler
by Coburn & Maynard
Attorneys.

Thomas A. Mast.

Wheel Cultivator.

No. 52,095 Patented Jan. 16, 1866.



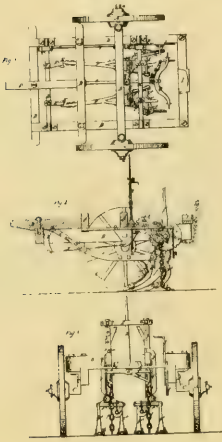
Witnesses
[illegible]

Inventor
[illegible] Mast
by [illegible]
Atty.

J. S. Gilmore.

Wheel Cultivator.

No. 52,154. Patented Jan. 23, 1866.



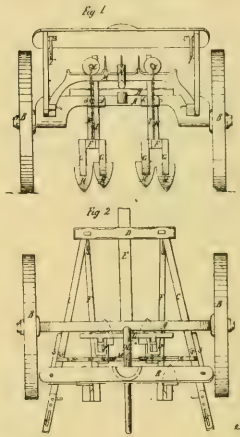
Witnesses

Inventor

S. G. Mills.

Wheel Cultivator.

No. 52,188. Patented Jan. 23, 1866.



Witnesses,

Inventor,

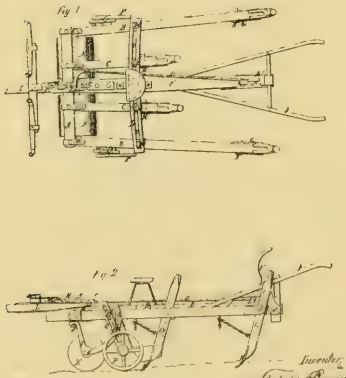
Stephen G. Mills

Attorney

T. N. Sherwood.

Wheel Cultivator.

No. 52,213. Patented Jan. 23, 1866.



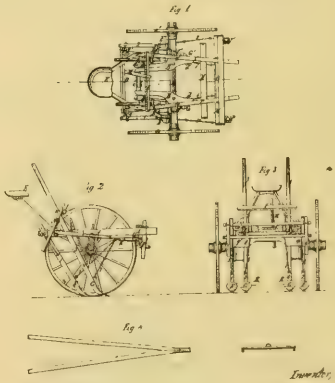
Witnesses,

Inventor

J. B. Skinner

Wheel Cultivator.

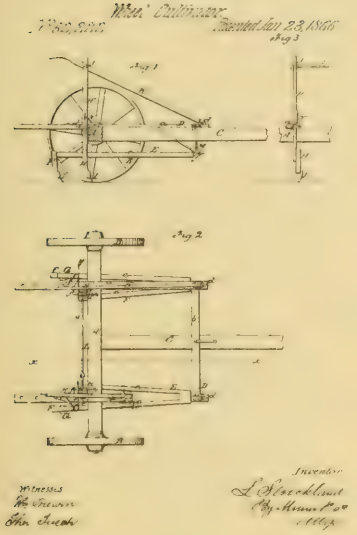
No. 52,214. Patented Jan. 23, 1866.

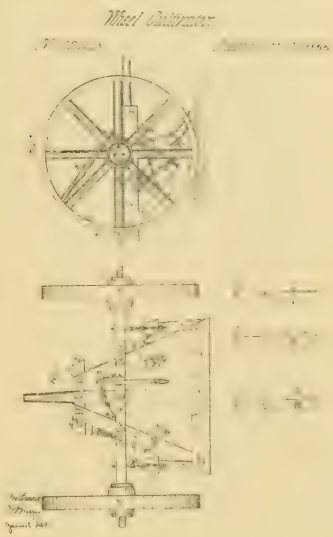


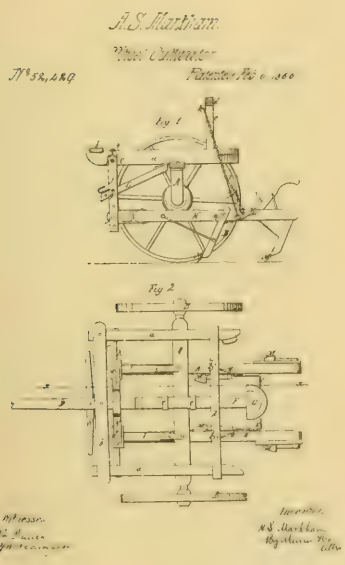
Witnesses,

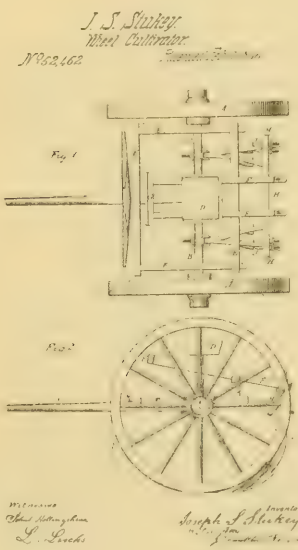
Inventor,

J. B. Skinner


L. Strickland.
Wheel Cultivator.
Fig 1
Fig 2
Fig 3
Witnesses
Inventor
L. Strickland


C. C. Wells.
Wheel Cultivator.

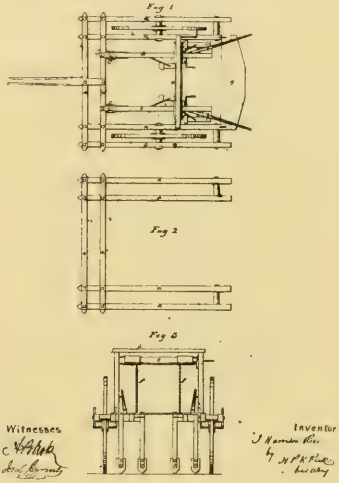

A. S. Markham.
Wheel Cultivator.
Fig 1
Fig 2
Witnesses
Inventor
A. S. Markham


J. S. Slickey.
Wheel Cultivator.
No 62,162
Fig 1
Witnesses
Inventor
Joseph S. Slickey

J. H. Rice.

Wheel Cultivator.

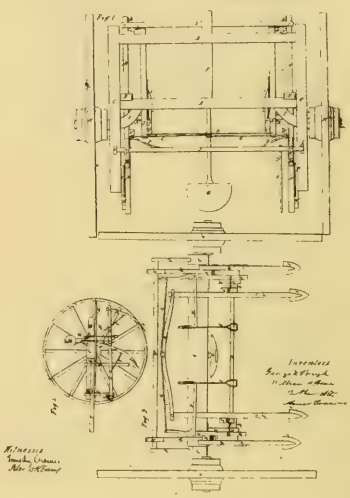
No. 52,606. Patented Feb. 13, 1866.



Francis Beard

Wheel Cultivator

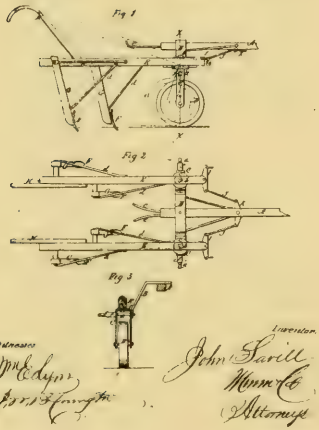
No. 52,743. Patented Feb. 20, 1866.



J. Starll.

Wheel Cultivator.

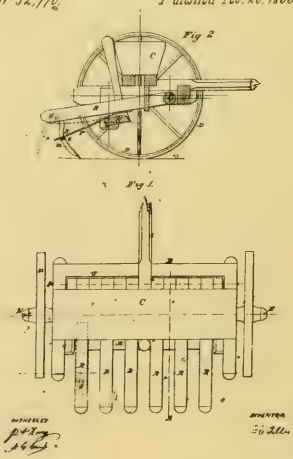
No. 52,764. Patented Feb. 20, 1866.



D. C. Teller.

Wheel Cultivator.

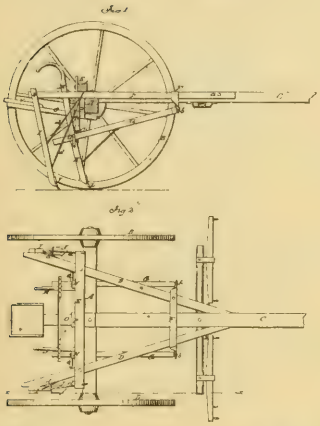
No. 52,770. Patented Feb. 20, 1866.



A. J. Stover.

Wheel Cultivator.

No. 58,905. Patented Feb. 27, 1866.

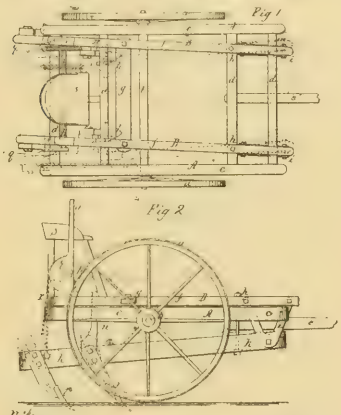


Witnesses
W. Grow
Geo. Busch

Inventor
A. J. Stover
By Munn & Co.
Attys.

Wheel Cultivator.

No. 58,998. Patented Mar. 6, 1866.



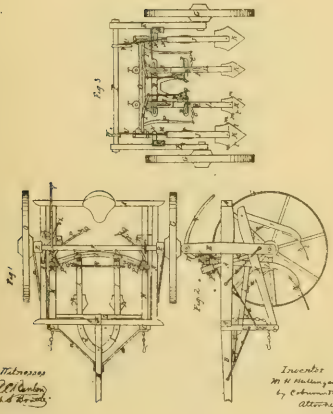
Witnesses
Walter J. Hull
C. A. Tackett

Inventor
Isaiah Henderson

M. H. Hullinger.

Wheel Cultivator.

No. 53,303. Patented Mar. 20, 1866.



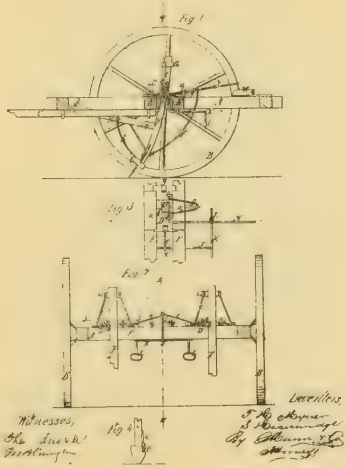
Witnesses
Geo. Carter
Geo. H. Strong

Inventor
M. H. Hullinger
by Edmund Wm. Ellis
Attorney

Miner & Heavenridge.

Wheel Cultivator.

No. 53,322. Patented Mar. 20, 1866.



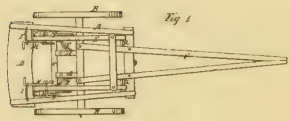
Witnesses,
Geo. Sieverd
Ira Wilmington

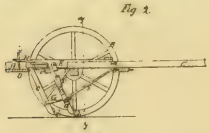
Inventors,
J. H. Miner
J. Heavenridge
By Munn & Co.
Attorneys

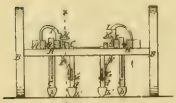
D. J. Noble.

Wheel Cultivator.

No. 54326. Patented Mar. 20, 1866.







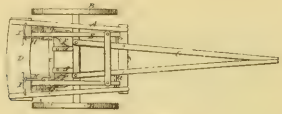
Witnesses:
Wm. Fraser
M. Dem. Crall.

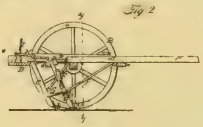
Inventor:
D. J. Noble
By Munn & Co
Attys

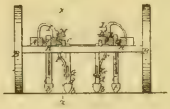
D. J. NOBLE

Wheel-Cultivator

No. 2,683 Reissued July 16 1867







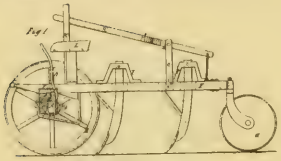
Witnesses.
Wm. Fraser
M. Dem. Crall

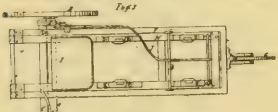
Inventor.
D. J. Noble
By Munn & Co.
Attys

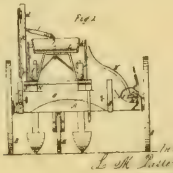
L. M. Patterson

Wheel Cultivator.

No. 54328 Patented Mar. 20, 1866.







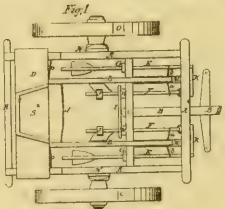
Witnesses
O. P. Kelsey
Op. Fraser

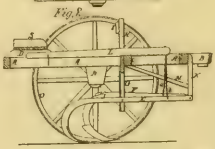
Inventor
L. M. Patterson
By Munn & Co
Attorneys

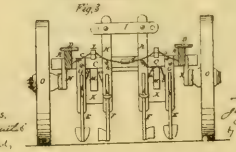
Cultivator

Wheel Cultivator.

No. 54,408 Patented Mar. 27, 1866

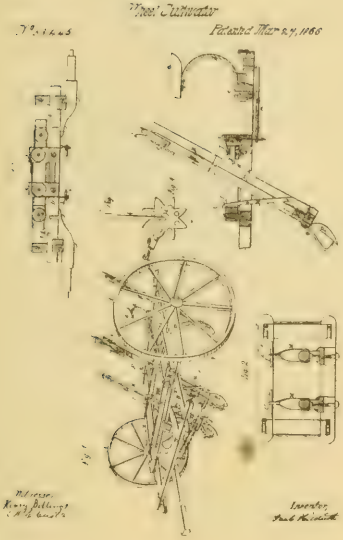


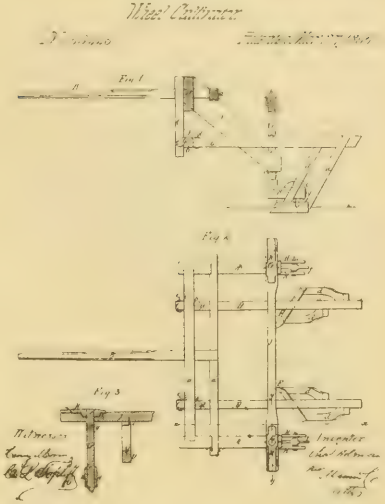




Witnesses.
J. H. Hunter
E. G. Hyde

Inventors,
James Campbell
Charles Hare
by Munn & Co
Attorneys

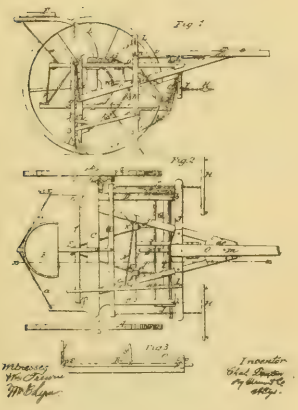


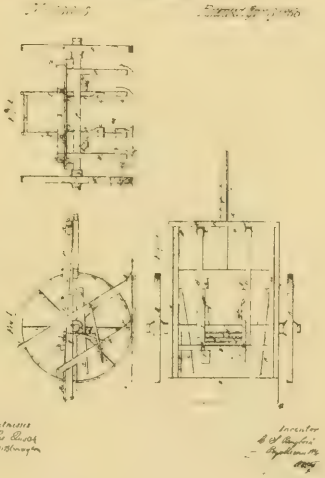


C. DENTON

Wheel-Cultivator.

No. 53,525 Patented Mar. 27, 1866.

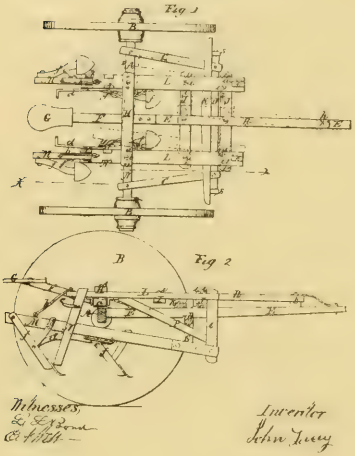




J. Lacey.

Wheel Cultivator

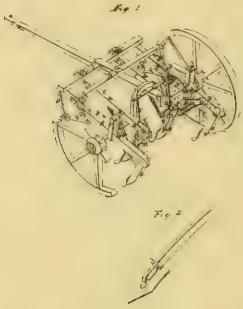
No. 53,837 Patented Apr. 10, 1866.



G. Perry.

Wheel Cultivator.

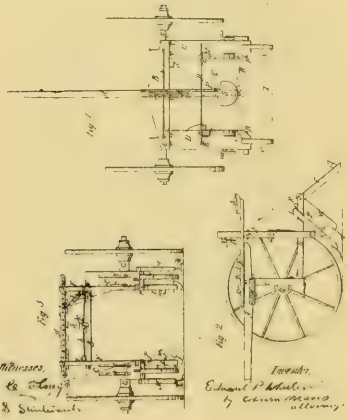
No. 53,887. Patented Apr. 10, 1866.



E. P. Wheeler.

Wheel Cultivator

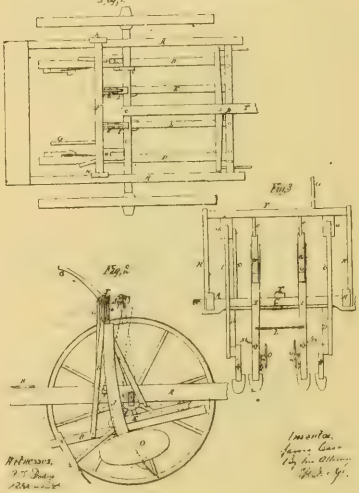
No. 53,911. Patented Apr. 10, 1866



J. Case

Wheel Cultivator

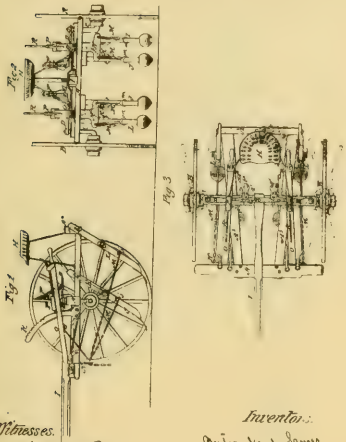
No. 53,947 Patented Apr. 17, 1866



Bertrand & Sames.

Wheel Cultivator.

No. 54,044 Patented Apr. 24, 1866



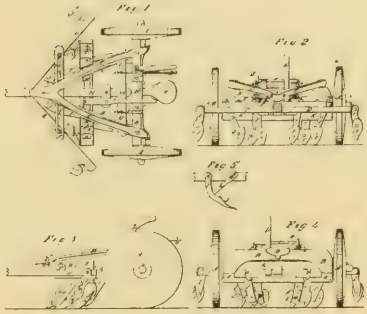
Witnesses.
Joseph L. Payton.
J. Theodore Lang.

Inventors:
Bertrand and Sames
By Wm. Alley
Baldwin & Son

J. L. Fountain

Wheel Cultivator

No. 54,130 Patented Apr. 24, 1866



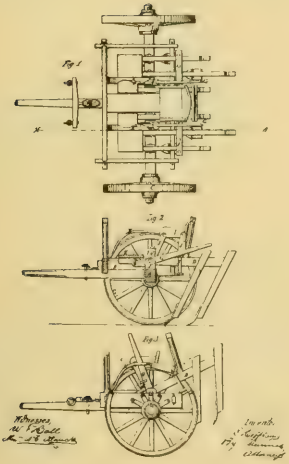
Witnesses:
W. H. Dunning
Frank Alder

Inventor
J. L. Fountain

S. Hoffheins.

Wheel Cultivator.

No. 54,160. Patented Apr. 24, 1866



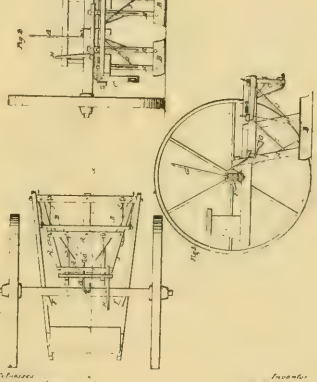
Witnesses
W. V. Rolt
L. S. Hamilt

Inventor
S. Hoffheins
By
Attorney
Albany

W. D. Fisher.

Wheel Cultivator.

No. 54,317. Patented May, 1866



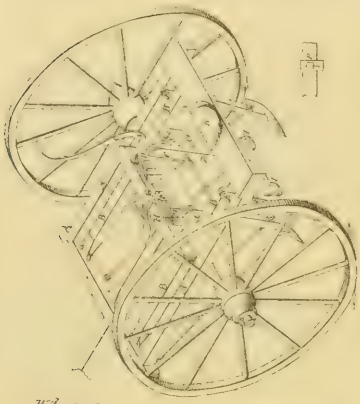
Witnesses
Alexander Hay
Walter Abell

Inventor
W. D. Fisher
Per L. Stoddard
Attorney

B. F. Young

Wheel Cultivator.

No. 54,637. Patented May 5, 1866.



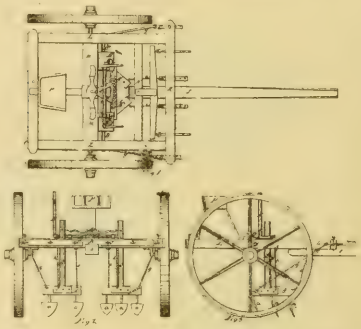
Witnesses:

Inventor,
B. F. Young
per W. A. Shumway Atty

Barr & Cox.

Wheel Cultivator.

No. 54,667. Patented May 15, 1866



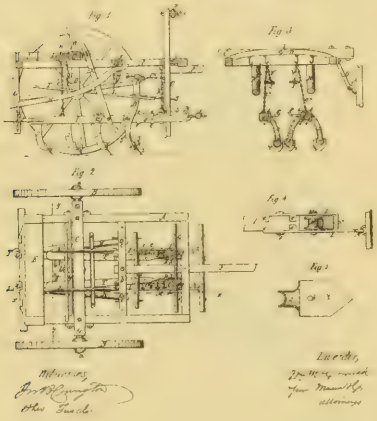
Witnesses

Inventors

W. McCormick.

Wheel Cultivator

No. 54,751. Patented May 15, 1866.



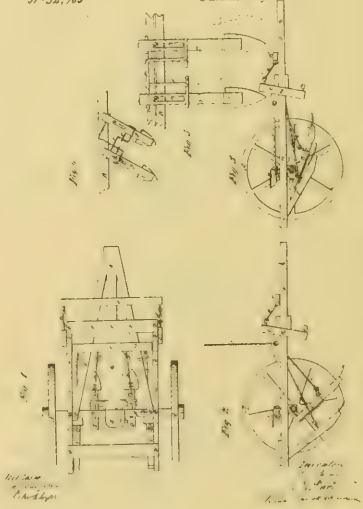
Witnesses

Inventor

Parmele & Patterson.

Wheel Cultivator.

No. 54,763. Patented May 15, 1866.



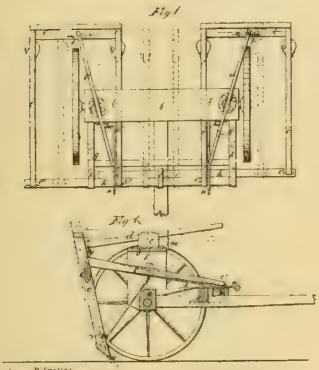
Witnesses

Inventors

T. M. Birdsell

Wheel Cultivator

No. 51,888. Patented Mar. 28, 1866



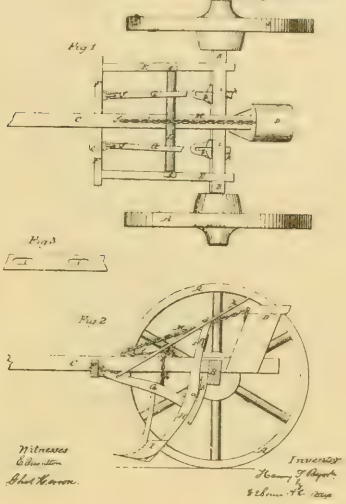
Witnesses
J. Mullenghster
C. V. Carter

Inventor
Thomas M. Birdsell

H. F. Byzoy.

Wheel Cultivator

No. 54,851. Patented May 22, 1866



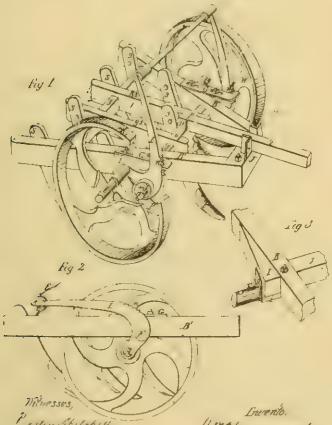
Witnesses
E. Hunter
Chas. Hanson.

Inventor
Henry F. Byzoy
by Edmund Rice

W. Hammond.

Wheel Cultivator and Gang Plow

No. 55,093. Patented May 29, 1866.



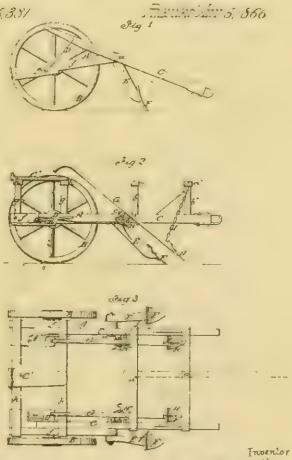
Witnesses,
Peter Mitchell
Chas. Jenning

Inventor
Wm. Hammond

[illegible]

Wheel Cultivator

No. 55,331 Patented June 5, 1866



Witnesses
John E. Lyon
Wm. Thorn

Inventor
H. B. Smith
per Munn & Co.
Attys.

A. M. BLACK.

Wheel-Cultivator.

No 55,913 Patented July 3 1866.

Fig 1.

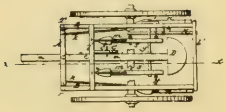
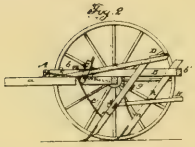


Fig 2



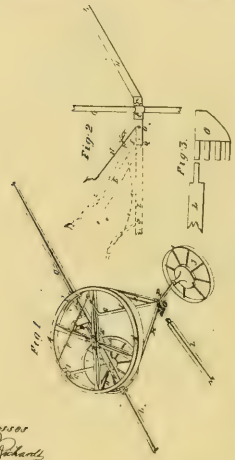
Witnesses:
Jas A. Lane
F. W. B. Livingston

Inventor:
A. M. Black
Per Munn & Co
Attys

T. J. Elliott.

Wheel Cultivator.

No 56,322 Patented Jul 3 1866



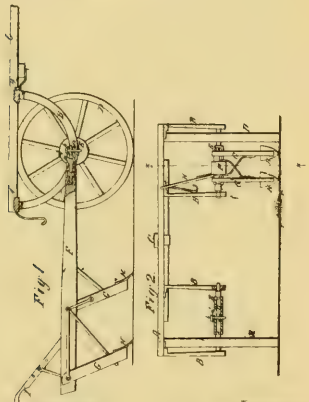
Witnesses
H. G. Richards
A. Brown

Inventor
Thomas J. Elliott

C. W. Talbiefer.

Wheel Cultivator

No 56,122. Patented Jul 3/1866.



Witnesses:
Jas A. Lane
F. W. B. Livingston

Inventor.
C. W. Talbiefer.
Per Munn & Co
Attorneys

Anderson & Edwards.

Wheel Cultivator.

No 56,157 Patented Jul 10, 1866.

Fig 1

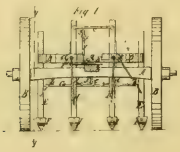
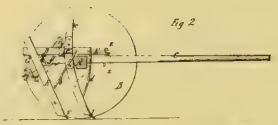
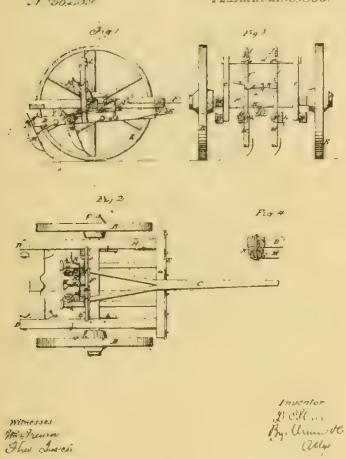


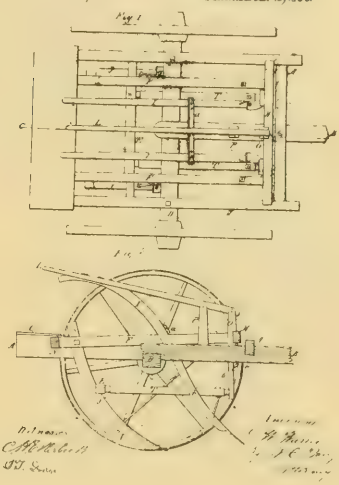
Fig 2

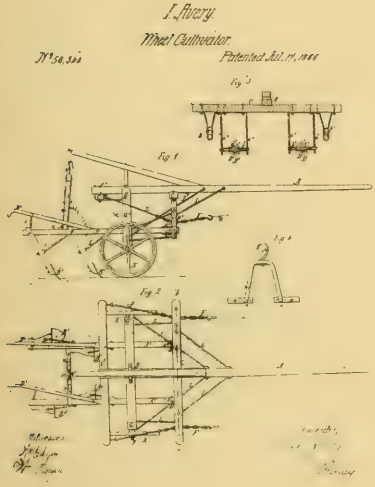


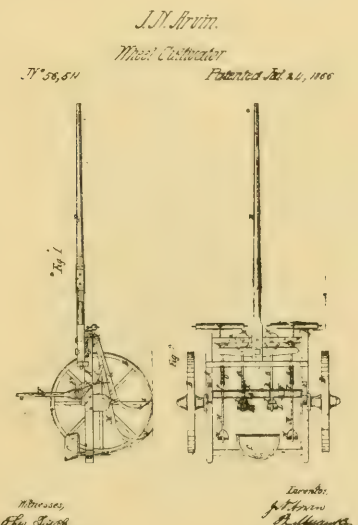
Witnesses,
H. G. Richards
W. Brown

Inventors,
A. J. Anderson
B. Edwards
Per Munn & Co
Attorneys


D. C. Stover
Wheel Cultivator
Patented Jul. 10, 1866
Fig. 1
Fig. 3
Fig. 2
Fig. 4
Witnesses
Inventor


C. W. Warren
Wheel Cultivator
Patented Jul. 10, 1866
Fig. 1
Witnesses

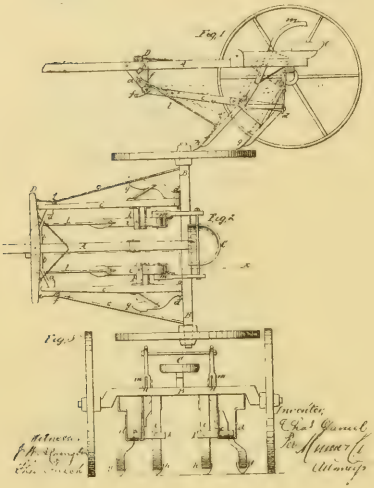

I. Avery
Wheel Cultivator
Patented Jul. 17, 1866
Fig. 3
Fig. 1
Fig. 4
Fig. 2
Witnesses


J. N. Irvin.
Wheel Cultivator
Patented Jul. 24, 1866
Fig. 1
Fig. 2
Witnesses
Inventor

C. Daniel.

Wheel Cultivator

No. 57,284. Patented Aug. 28, 1866.

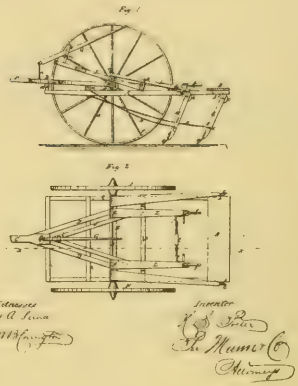


Sheet 1, 4 Sheets

H. S. Potter.

Wheel Cultivator.

No. 57,563 Patented Aug. 28, 1866

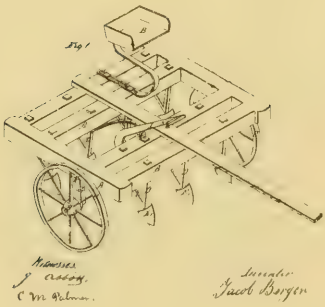


Sheet 2, 2 Sheets

J. Bergen.

Wheel Cultivator

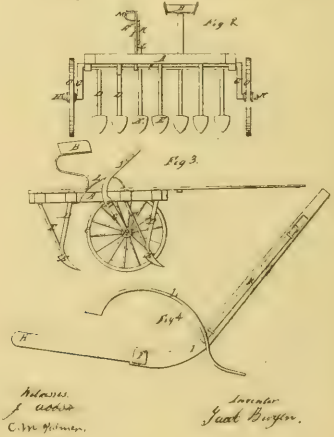
No. 57,619. Patented Aug. 28, 1866.



J. Bergen.

Wheel Cultivator

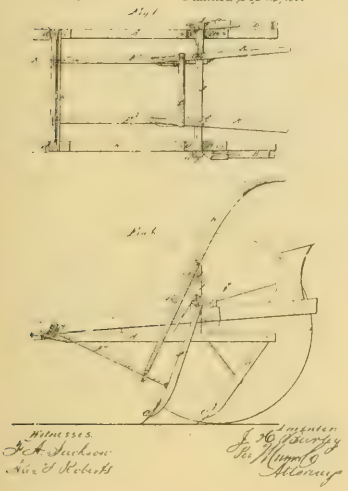
No. 57,619. Patented Aug. 28, 1866.



J. H. Barley

Wheel Cultivator.

No. 57,600 Patented Sept. 4, 1866



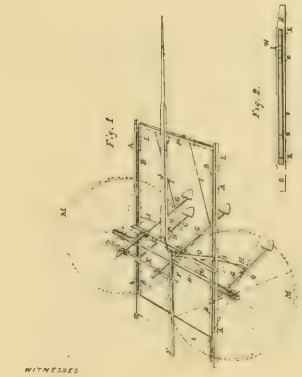
Witnesses.
F. A. Jackson
Nic. S. Roberts

Inventor
J. H. Barley
Per Munn & Co
Attorneys

G. T. Gifford

Wheel Cultivator

No. 57,700. Patented Sept. 4, 1866



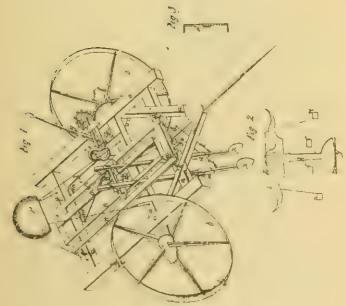
WITNESSES
Chas. B. Richards
J. W. Osborne

INVENTOR
Geo. T. Gifford

L. B. Moore.

Wheel Cultivator

No. 57,752. Patented Sept. 4, 1866.



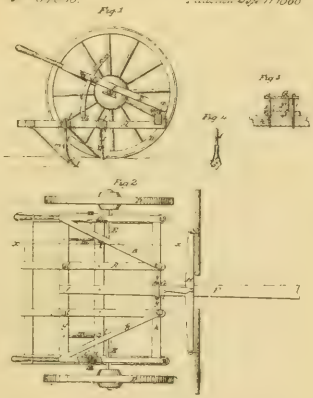
Witnesses;
Daniel Blair
Joseph Baker

Inventor,
L. B. Moore

M. H. Buckwell.

Wheel Cultivator

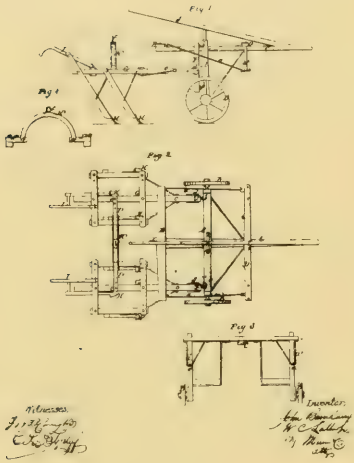
No. 57,856. Patented Sept. 11, 1866



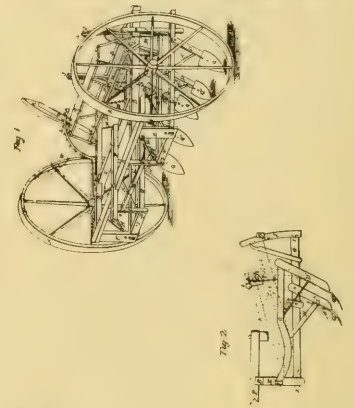
Witnesses
H. W. Crampton
Geo. Stearns

Inventor
M. H. Buckwell
By Munn & Co
Attorneys

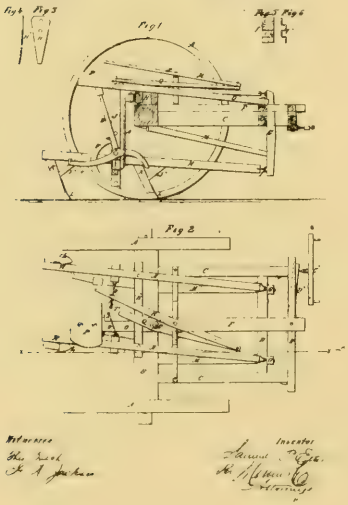
Burnham & Lathrop.
Cultivator.
No. 57,859. Patented Sept. 11, 1866.



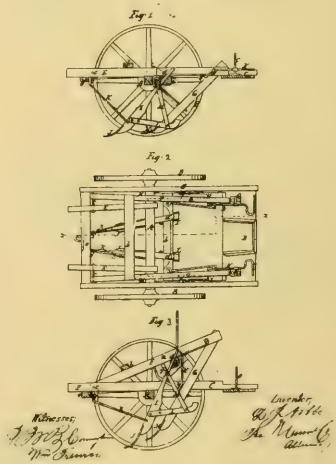
H. Hoover.
Wheel Cultivator.
No. 57,906. Patented Sept. 11, 1866.



S. P. Etter
Wheel Cultivator.
No. 58,094. Patented Sept. 18, 1866.



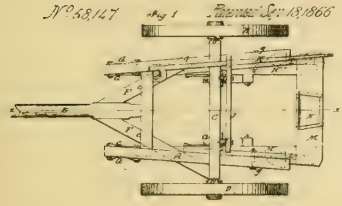
D. I. Noble
Wheel Cultivator.
No. 58,165. Patented Sept. 18, 1866.

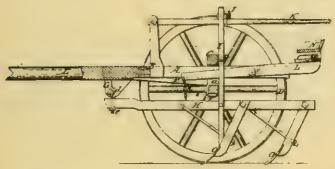


A. Stark.

Wheel Cultivator.

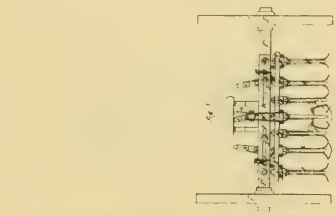
No. 58,147 Patented Sept. 18, 1866

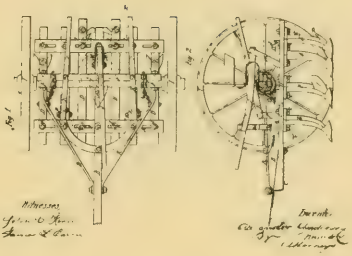




Witnesses
J. H. B. Langton
Wm. Irwin

Inventor
Andrew Stark
Per Munn & Co
Attys





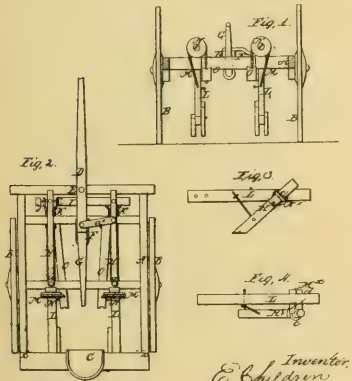
Witnesses

Inventor

E. Children.

Wheel Cultivator.

No. 58,380. Patented Oct. 2, 1866.



Witnesses
J. H. B. Langton
Wm. Irwin

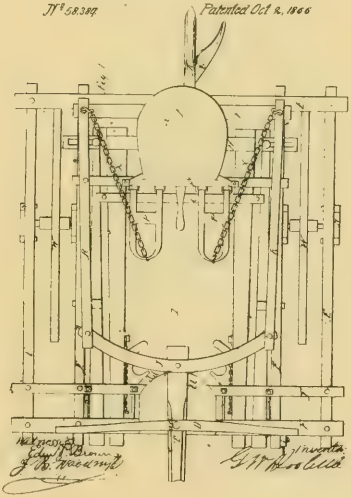
Inventor
E. Children
Per Munn & Co
Attorneys

Sheet 1, No. 58,389.

G. W. Doolittle

Wheel Cultivator

No. 58,389 Patented Oct. 2, 1866



Witnesses
Chas. H. Denning
J. H. Toussaint

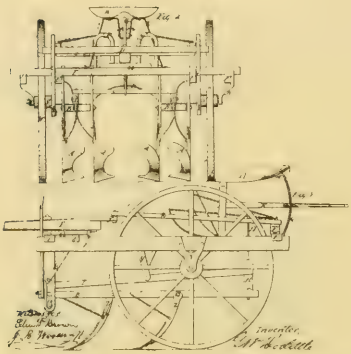
Inventor
G. W. Doolittle

Sheet 2 Sheets.

J. W. Jenkins

Wheel Cultivator

No. 53,330 Patented Oct. 2, 1866.



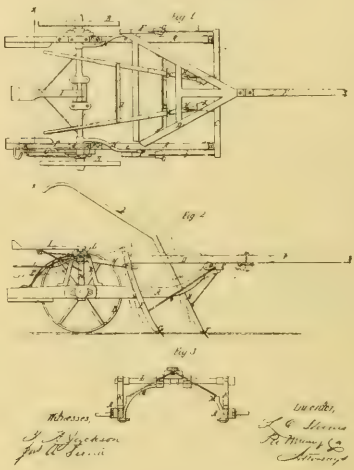
Witnesses,
Chas. H. Brown
J. B. Brown

Inventor,
J. W. Jenkins

I. O. Stevens

Wheel Cultivator

No. 58,693 Patented Oct. 9, 1866



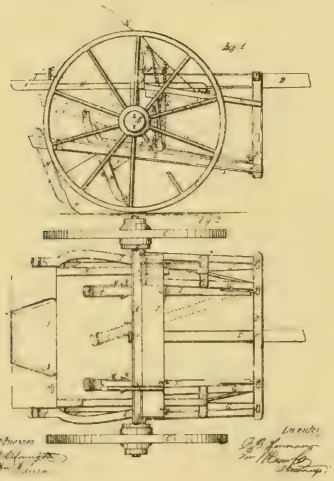
Witnesses,
J. F. Jackson
Geo. W. Irwin

Inventor,
I. O. Stevens
Pr. Munn & Co.
Attorneys

J. B. Harmon.

Wheel Cultivator.

No. 59,012. Patented Oct. 23, 1866.



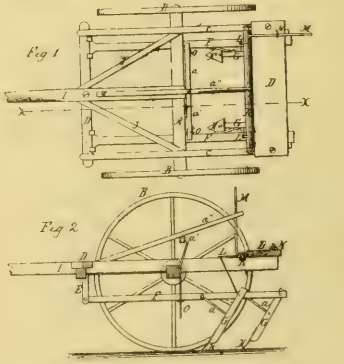
Witnesses
J. B. Harmon
Geo. W. Irwin

Inventor,
J. B. Harmon
per Munn & Co.
Attorneys

R. C. Howard.

Wheel Cultivator.

No. 59,028. Patented Oct. 23, 1866.



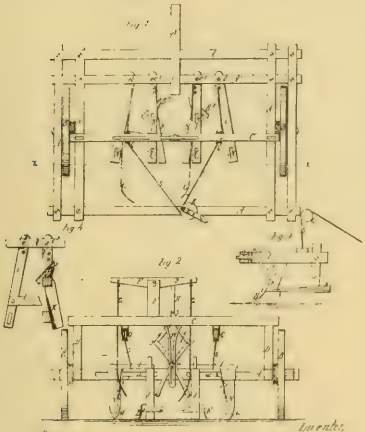
Witnesses.
J. F. Jackson
W. H. Irwin

Inventor
R. C. Howard.
Pr. Munn & Co.
Attorneys

J. A. Hall.

Wheel Cultivator.

No. 54,215. Patented Oct. 30, 1866.



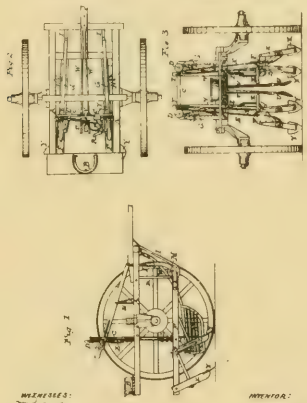
Witnesses.
E. A. Jackson
Geo. H. Mitchell.

Inventor.
J. A. Hall
By Munn & Co. Attorneys

W. Kiddoo.

Wheel Cultivator.

No. 59,231. Patented Oct. 30, 1866.



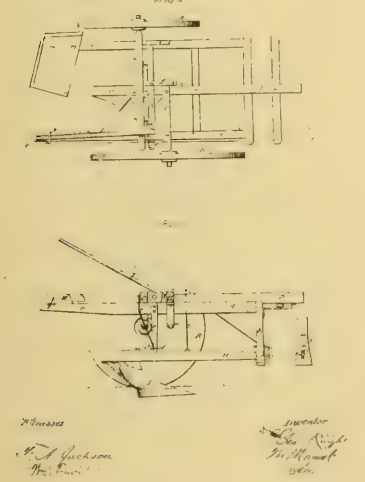
WITNESSES:
J. H. Kennedy
Thomas H. Clarke

INVENTOR:
W. Kiddoo
By his Atty. A. H. Evans

C. Knight.

Wheel Cultivator

No. 59,932. Patented Oct. 30, 1866



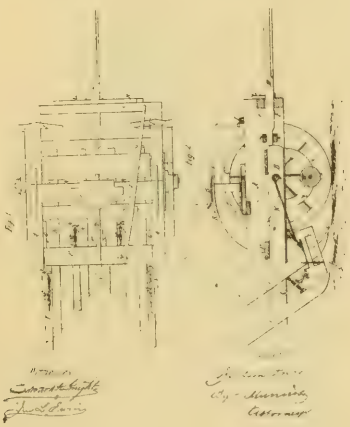
Witnesses
E. A. Jackson
Geo. H. Mitchell

Inventor
Chas. Knight
By Munn & Co.
Attys.

J. Price

Wheel Cultivator.

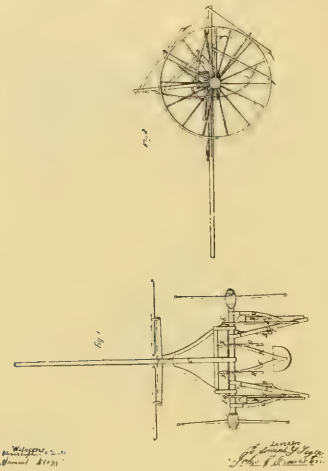
No. 59,262. Patented Oct. 30, 1866



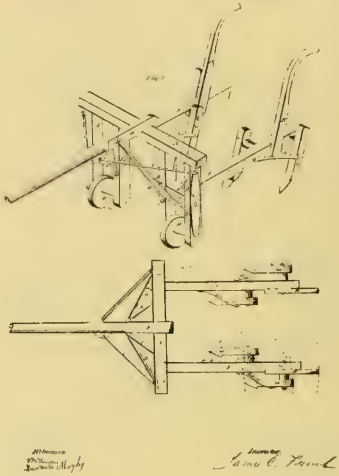
Witnesses
Edward Knight
Jno. L. Dunn

Inventor
J. Price
By Munn & Co.
Attorneys

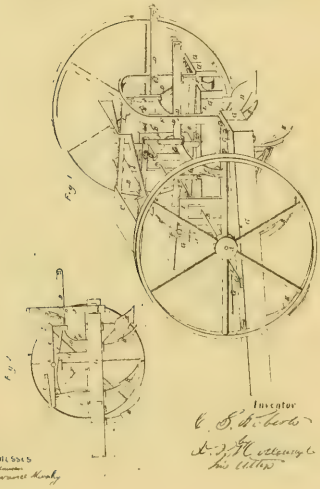
Sagar & Ormiston.
Wheel Cultivator.
No. 54,279 Patented Apr. 30, 1866.



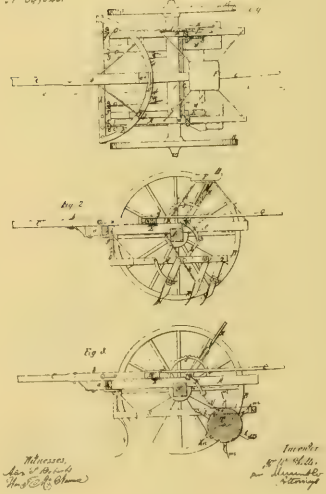
J. C. Frank
Wheel Cultivator
No. 69,381 Patented Oct. 1, 1867

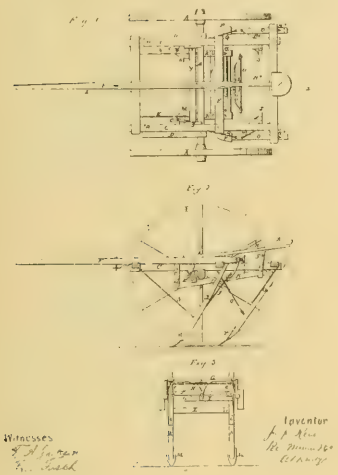


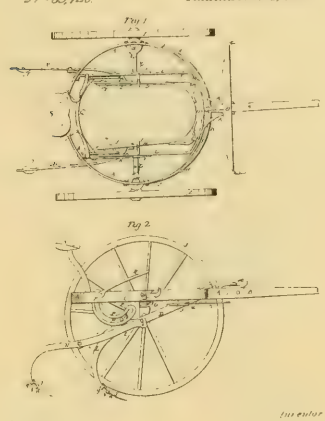
C. S. Roberts
Wheel Cultivator
No. 61,420 Patented Nov. 6, 1866



W. M. Phillips
Wheel Cultivator
No. 59,663. Patented Nov. 13, 1866



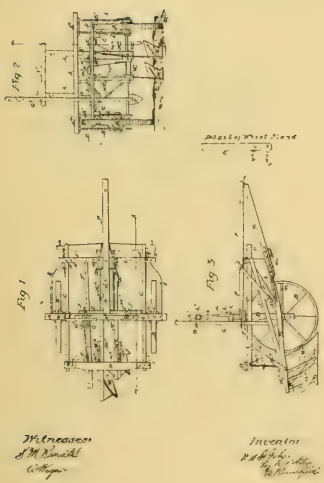




W. W. St. JOHN.

Wheel Cultivator.

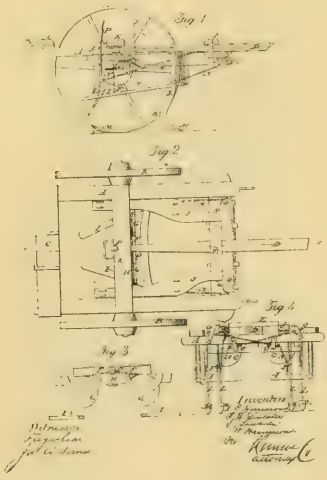
No. 60,589. Patented Dec. 18, 1866.



A. P. HAMMON, J. H. & S. LINCOLN, & T. W. HAMMON.

Wheel-Cultivator.

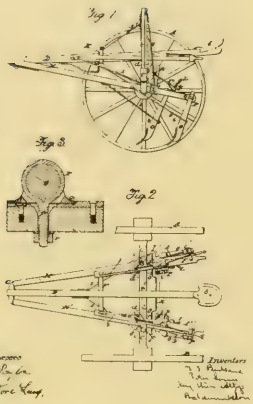
No. 60,722. Patented Jan. 1, 1867.



BERTRAND & SAMES.

Wheel-Cultivator.

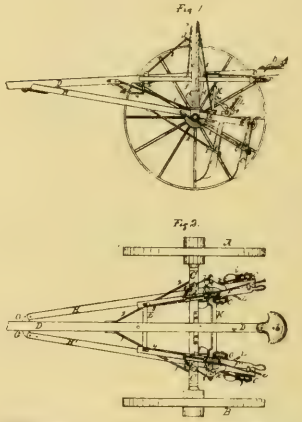
No. 60,916. Patented Jan. 1, 1867.



Bertrand & Sames, 2 Sheets, Sheet 1.

Wheel Cultivator

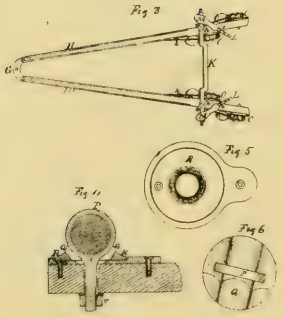
No. 4,909. Reissued Nov. 28 1871



Bertrand & Sames, 2 Sheets, Sheet 2.

Wheel Cultivator.

No. 4,909. Reissued Nov. 28. 1871.



Witnesses
Jacob Bohrer
Geo. S. Haskell.

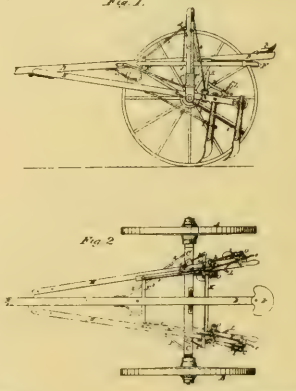
Inventors
Theophilus F. Bertrand
Peter Sames.

2 Sheets--Sheet 1

THEOPHILUS F. BERTRAND & PETER SAMES

Cultivator.

No. 4,581. Reissued Oct. 10. 1871.



Witnesses

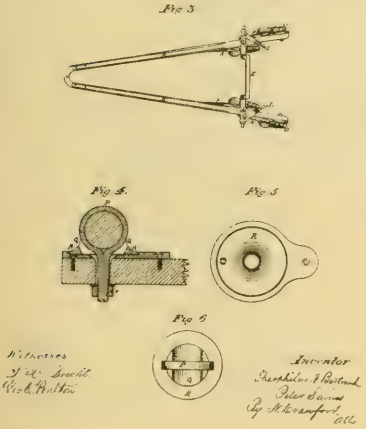
Inventors
Theophilus F. Bertrand
Peter Sames

2 Sheets--Sheet 2

THEOPHILUS F. BERTRAND & PETER SAMES.

Cultivator.

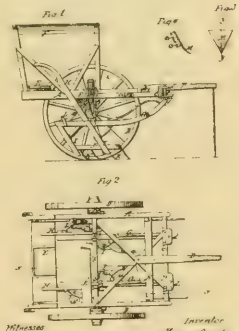
No. 4,561. Reissued Oct. 10, 1871.



H. BARSALOW

Wheel-Cultivator

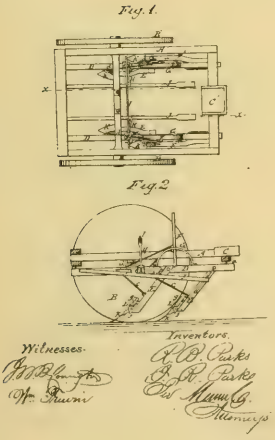
No. 61,040. Patented Jan. 8, 1867.



R. B. & J. R. PARKS

Wheel-Cultivator.

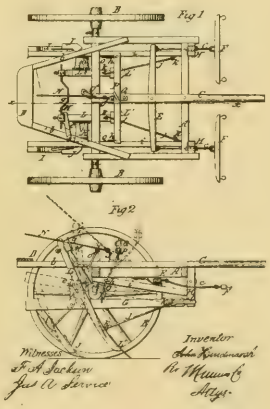
No 61,097 Patented Jan. 8, 1867



J. HINDMARSH

Wheel-Cultivator

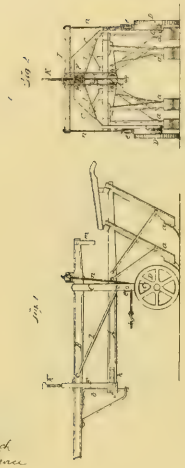
No. 61,196 Patented Jan 15 1867



C. P. NORTON

Wheel-Cultivator.

No. 61,450 Patented Jan. 22, 1867.



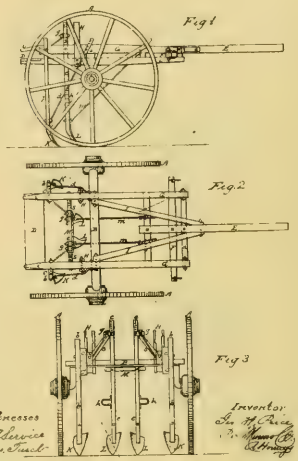
Witnesses.
Thos Fish
J. R. Serrue

Inventor.
C. P. Norton
Per Munn & Co
Attys

G. W. PRICE.

Wheel-Cultivator

No. 61,566 Patented Jan. 29, 1867



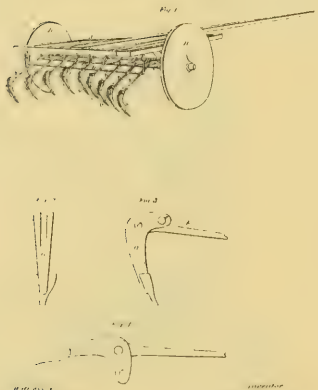
Witnesses
J. Alderice
John Trail

Inventor.
Jno. H. Price
Per Munn & Co
Attorneys

J. Negsior.

Wheel Cultivator.

No. 61,622 Patented Jan. 29, 1867



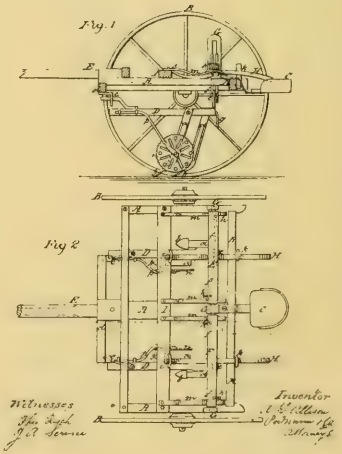
Witnesses
R. Offermann
F. Schumann

Inventor
Jacob Kessler
per
Alexander & Mason
Attorneys

A. H. ALLISON.

Wheel Cultivator.

No. 61 649. Patented Jan 29, 1867



Witnesses
Thos Fish
J. R. Serrue

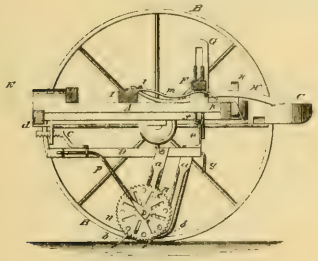
Inventor
A. H. Allison
Per Munn & Co
Attorneys

2 Sheets—Sheet 1

A. H. ALLISON,
Assignor to Eagle Manufacturing Co
Cultivator.

No. 9,085. Reissued Feb. 17, 1880.

Fig. 1.



Witnesses:
P. C. Dietrich
William H. Dodge.

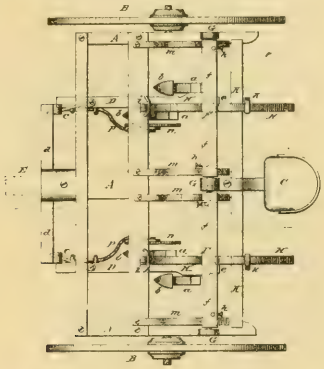
Ira H. Allison Inventor
Assignor to the Eagle Manufacturing Co.
Per By Dodger & Son Attorneys.

2 Sheets—Sheet 2

A. H. ALLISON,
Assignor to Eagle Manufacturing Co
Cultivator.

No. 9,085. Reissued Feb. 17, 1880.

Fig. 2.

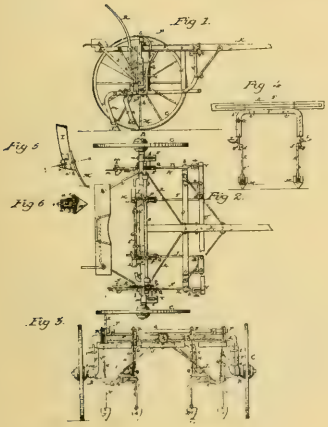


Witnesses:
P. C. Dietrich
William H. Dodge

Ira H. Allison Inventor
Assignor to the Eagle Manufacturing Co.
Per By Dodger & Son Attorneys.

I. B. MAHON
Wheel-Cultivator

No. 61,674. Patented Jan 29, 1867.

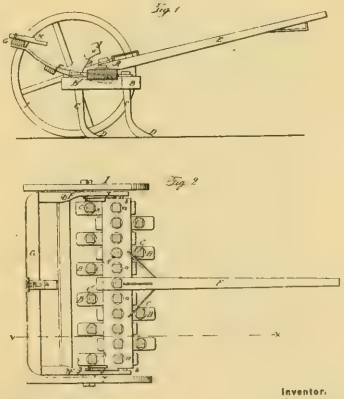


Witness
Ed Johnson

Inventor
Dunn & McCoy
Per H. Mason
Attorneys

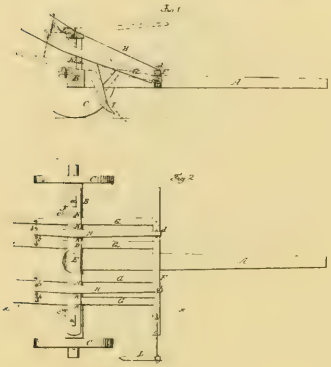
W. F. CLARK
Wheel-Cultivator

No 61,805. Patented Feb. 5, 1867.



Witnesses:
Geo Smith
J. A. Morris

Inventor.
W. F. Clark
By Spencer & Collins Atty



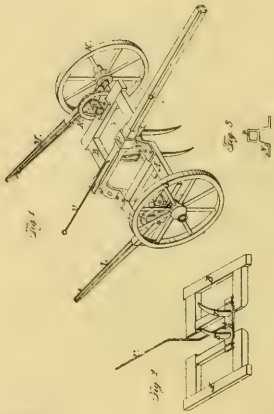
Witnesses
John Smith
J. A. Lerner

Inventor
John Fitt
Per Munn & Co
Attys

C. WILLARD.

Wheel Cultivator.

No. 61,906. Patented Feb. 5, 1867.



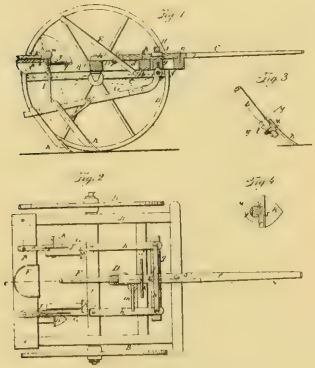
Witnesses:
J. F. Taylor.
John A. Dodge

Inventor.
Charles Willard
Per Baldwin & Son Attys.

E. CHILDREN.

Wheel-Cultivator.

No. 62,004 Patented Feb. 12, 1867



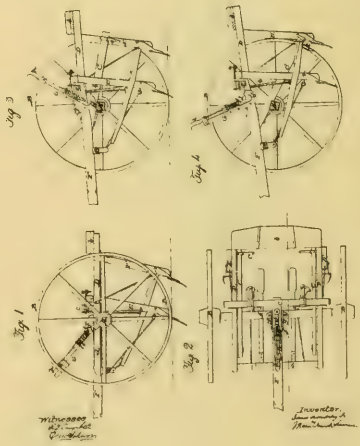
Witnesses:
John Smith
J. Lerner

Inventor.
Edwin Children
Per Munn & Co
Attorneys

J. ARMSTRONG Jr.

Wheel-Cultivator

No. 62,109 Patented Feb 12, 1867



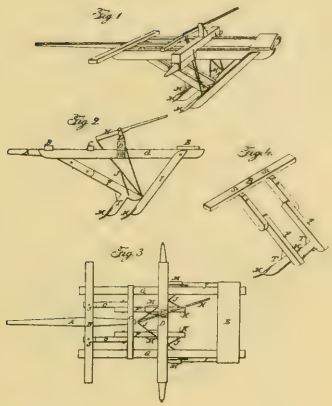
Witnesses
[illegible]

Inventor.
[illegible]

J. W. CONNELY.

Wheel-Cultivator.

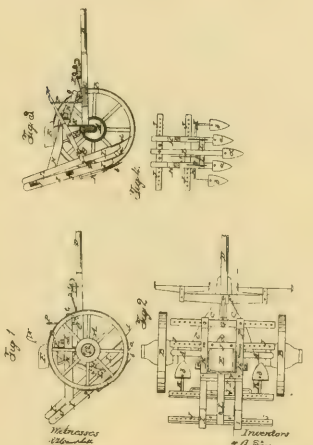
No. 62,185. Patented Feb. 19, 1867.



LANE & COLTER.

Wheel-Cultivator.

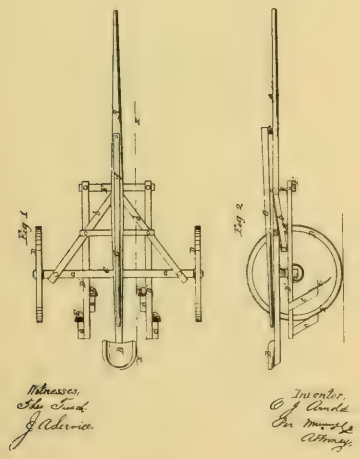
No. 62,344. Patented Feb. 26, 1867.



O. J. Arnold.

Wheel Cultivator.

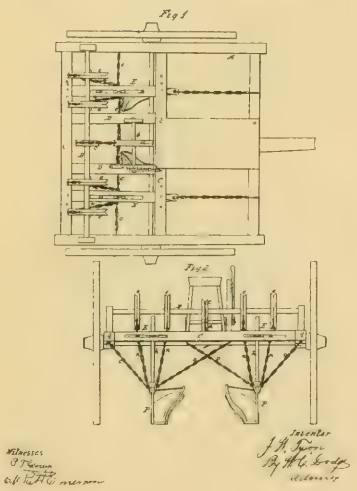
No. 62,387. Patented Feb. 26, 1867.



J. M. Tyson.

Wheel Cultivator.

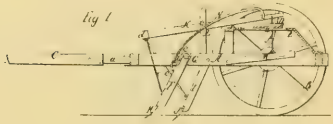
No. 62,511. Patented Feb. 26, 1867.

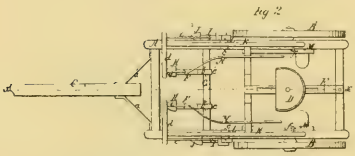


C. F. Meggnier.

Wheel Cultivator.

No. 62,868. Patented Mar. 12, 1867





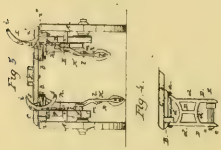
Witnesses;
J. A. Jackson
Thos. Tuck Jr.

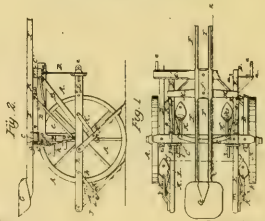
Inventor,
C. F. Meggnier
Per Munn & Co.
Attorneys

H. HOWE

Wheel-Cultivator.

No. 63,050. Patented Mar 19, 1867





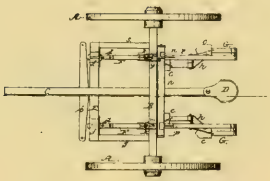
Witnesses:
F. A. Jackson
Th. Tuck

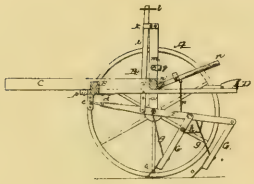
Inventor:
H. Howe
Munn & Co.
Attorneys

H. B. KYNETT.

Wheel-Cultivator.

No. 63,200 Patented Mar 26. 1867.





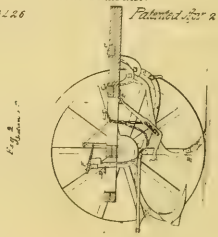
WITNESSES:
J. A. Jackson
J. C. Lawrence

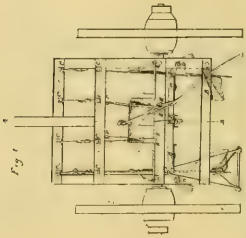
INVENTOR:
H. B. Kynett
Per Munn & Co.
Attys

J. H. Reynerson.

Wheel Cultivator.

No. 63,426 Patented Apr. 2, 1867

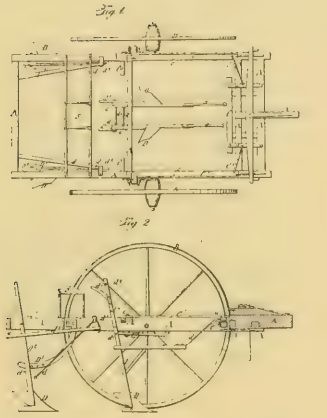




P. L. WEST.

Wheel Cultivator.

No. 63,447. Patented Apr. 2, 1867.



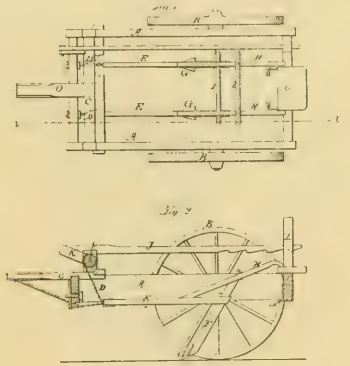
Witnesses:

Inventor.

D. W. COLBURN

Wheel-Cultivator.

No. 63,473 Patented Apr. 2. 1867.



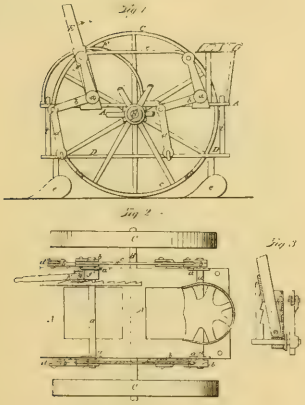
Witnesses:

Inventor.

S. B. CONOVER.

Wheel Cultivator and Planter.

No 63,476. Patented Apr 2, 1867.

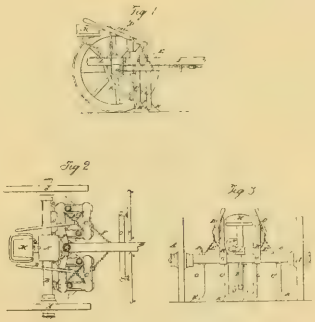


Inventor.

H. C BRISTOL

Wheel-Cultivator

No 63,698 Patented Apr. 9. 1867



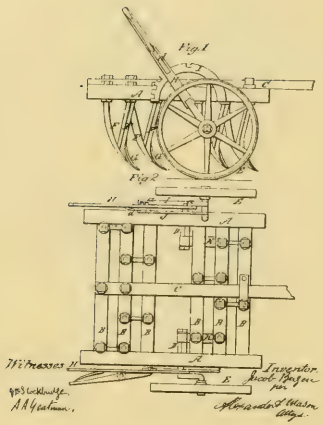
Witnesses

Inventor

CULTIVATORS WHEEL OR SULKY.

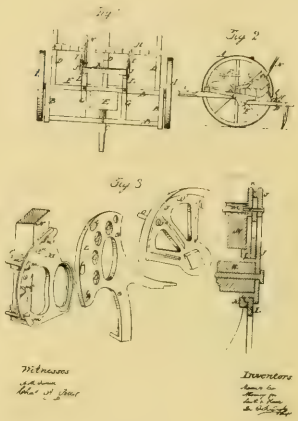
J. BERGEN
Wheel-Cultivator

No. 64,061. Patented Apr 23 1867



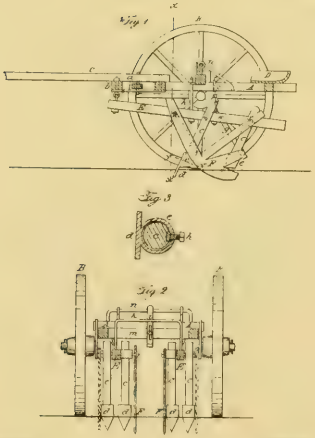
LOWTH & HOWE
Wheel-Cultivator

No. 64,119 Patented Apr 23 1867

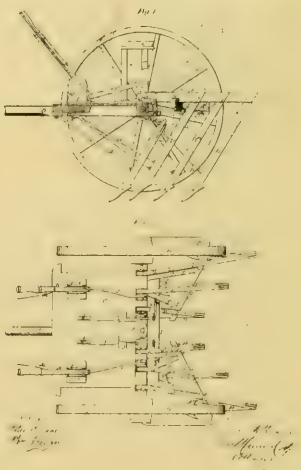


G. SPRAGUE.
Wheel Cultivator.

No. 64,376. Patented Apr. 30, 1867.



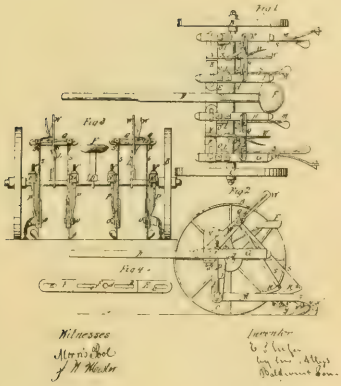
E. H. Knight.
Wheel Cultivator
No. 72,2. Patented Nov 19, 1867



E. PHIFER.

Wheel-Cultivator.

No. 64,583. Patented May 7, 1867.

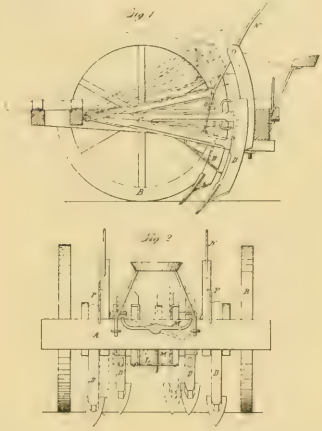


J. E. ROWLAND

Wheel Cultivator.

2 Sheets—Sheet 1.

No. 64,576. Patented May 7, 1867.



Witnesses:

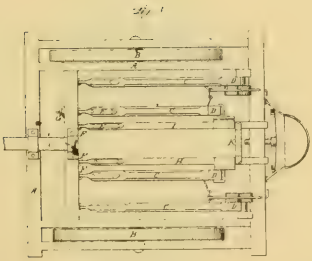
Inventor:

J. E. ROWLAND

Wheel Cultivator.

2 Sheets—Sheet 2.

No. 64,576. Patented May 7, 1867.



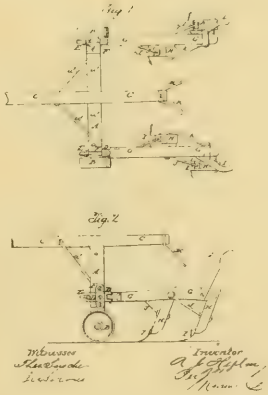
Witnesses:

Inventor:

A. J. HEFLIN

Wheel-Cultivator.

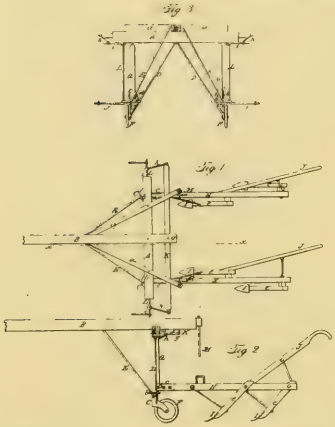
No. 64,688. Patented May 14, 1867.



G. W. STOCKTON.

Wheel Cultivator.

No. 64,721. Patented May 14, 1867.



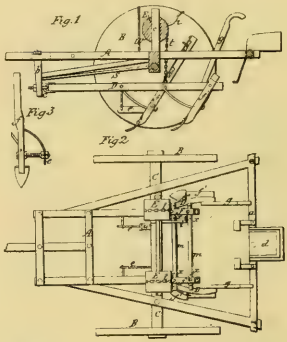
Witnesses:
E. A. Jackson
Wm. Twiss

Inventor:
G. W. Stockton
Per Munn & Co.
Attys

H. BOYS.

Wheel-Cultivator

No. 65,168. Patented May 28, 1867



Witnesses:
A. M. Marr
V. D. Stockbridge

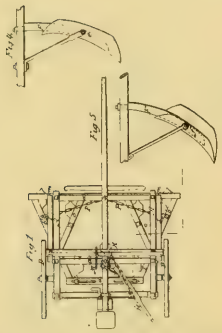
Inventor
Alexander Mason,
Attys.

2 Sheets—Sheet 1

J. C. BIRD.

Wheel-Cultivator.

No. 65,719 Patented June 11, 1867.



Witnesses
Geo. H. Bothwell
G. Munn

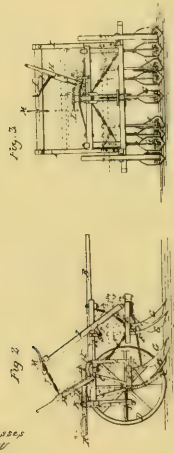
Inventor
Munn & Co.
Attorneys for
Joseph C. Bird
by Munn & Co.

2 Sheets—Sheet 2

J. C. BIRD.

Wheel-Cultivator

No. 65,719 Patented June 11, 1867.



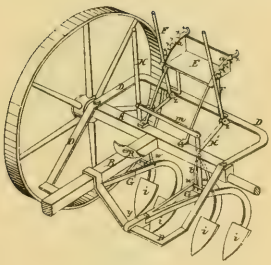
Witnesses
Geo. H. Bothwell
G. Munn

Inventor
Munn & Co.
Attorneys for
Joseph C. Bird

B. C., T. W. & J. M. COCHRAN.

Wheel-Cultivator.

No. 65,875 Patented June 18, 1867



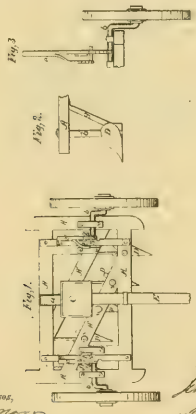
Witnesses:

Inventor:

J. Kochr.

Wheel Cultivator.

No. 65,918 Patented June 18, 1867



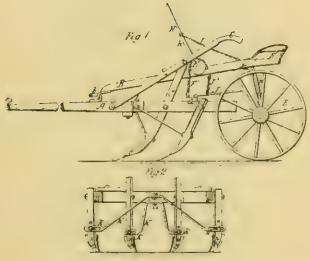
Witnesses,

Inventor,

PELTON & BARROW.

Wheel-Cultivator.

No. 65,938. Patented June 18, 1867.



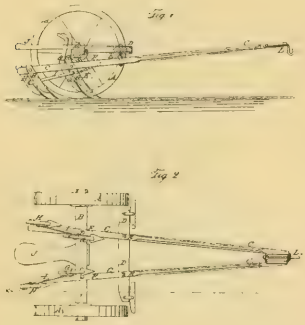
Witnesses

Inventors

I. WING.

Wheel Cultivator.

No. 66,200. Patented June 25, 1867



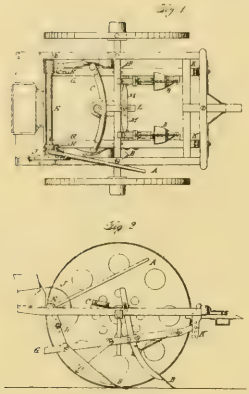
Witnesses:

Inventor.

M. REDLINGER.

Wheel Cultivator.

No. 66,253. Patented July 2, 1867.



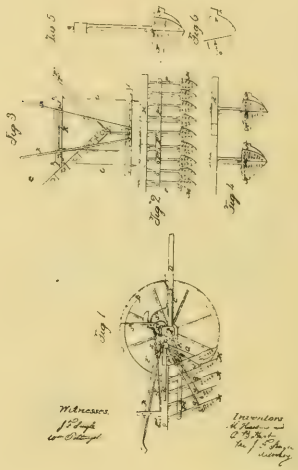
Witnesses:

Inventor:

HASKINS & HART.

Wheel-Cultivator

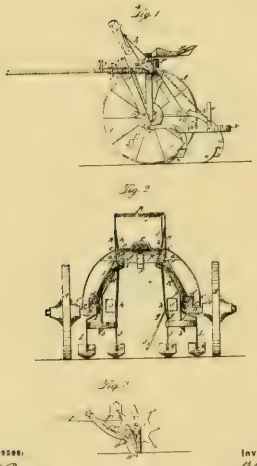
No. 66,491. Patented July 9, 1867.



B. W. REMY.

Grain Drill.

No. 66,627. Patented July 9, 1867.



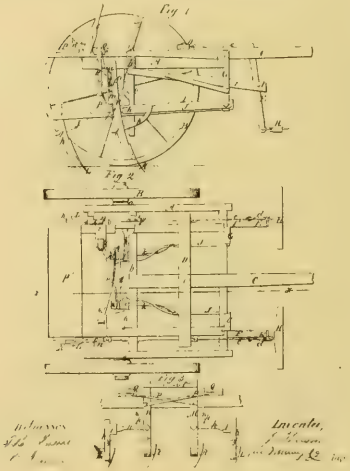
Witnesses:

Inventor:

J. Wilson.

Wheel Cultivator.

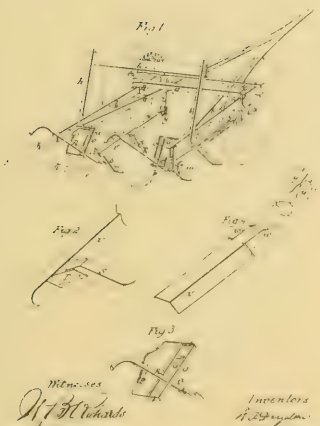
No. 66,[illegible] Patented July [illegible] 1867



W A & C E PRYDEN

Wheel-Cultivator

Patented July 30, 1867.

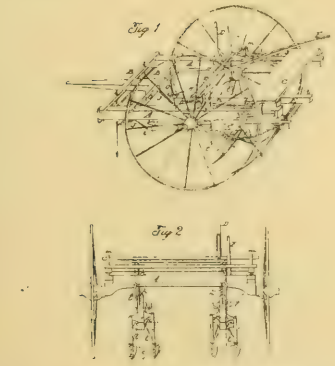


A M GRISWOLD

Wheel-Cultivator

No. 67,295.

Patented July 30, 1867

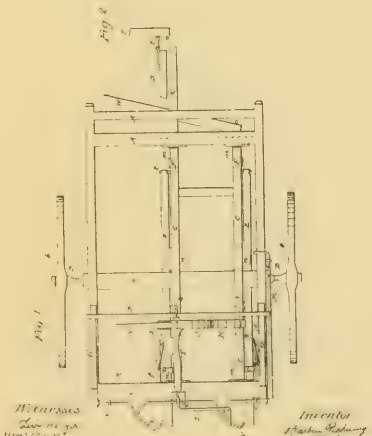


A. MARTIN

Wheel-Cultivator

No. 67,411

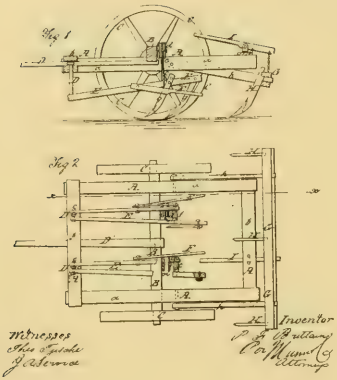
Patented Aug 6 1867



P. F. BRITTAIN.

Wheel-Cultivator.

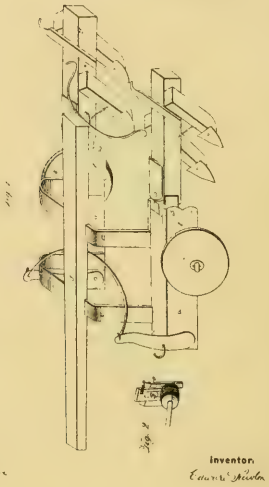
No. 67,940. Patented Aug. 20, 1867.



E. NEWLON

Wheel-Cultivator

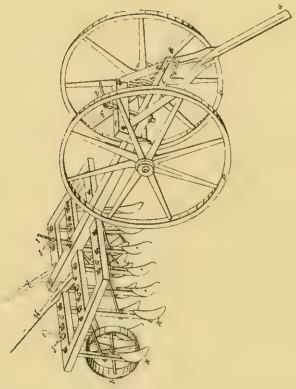
No. 68,104. Patented Aug. 27, 1867.



ROMANN & PETERKA.

Wheel Cultivator.

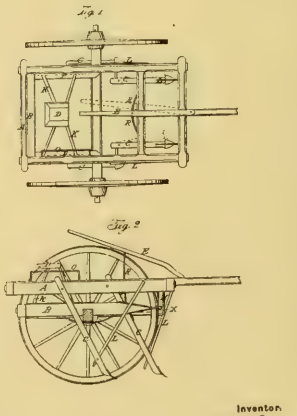
No. 68,114. Patented Aug. 27, 1867.



W. A. SISSON.

Wheel Cultivator.

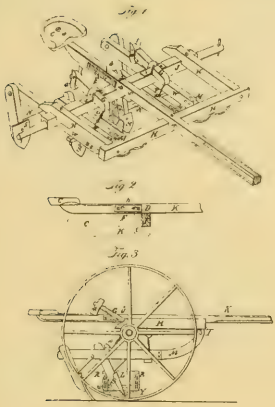
No. 68,124. Patented Aug. 27, 1867.



A. CANFIELD.

Wheel-Cultivator.

No. 68,165 Patented Aug. 27, 1867



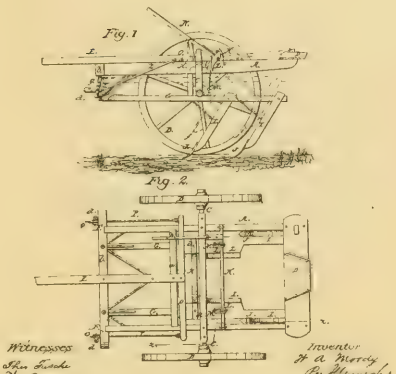
Witnesses

Inventor.

W. A. MOODY.

Wheel-Cultivator

No. 68,625 Patented Sept. 3, 1867



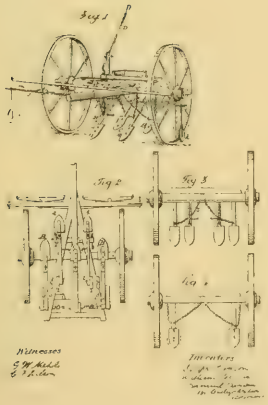
Witnesses

Inventor

J. S. & W. BENSON.

Wheel-Cultivator.

No. 68,549. Patented Sept. 3, 1867



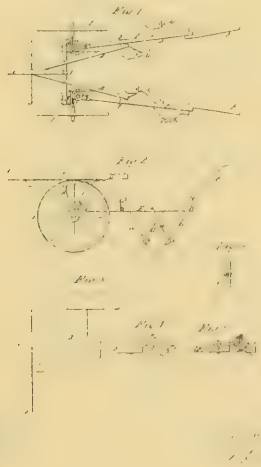
Witnesses

Inventors

C. Moore

Wheel Cultivator

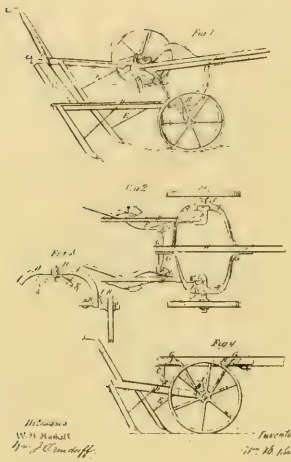
No. 68,613 Patented Sept. 10, 1867



W. H. PARLIN.

Wheel-Cultivator.

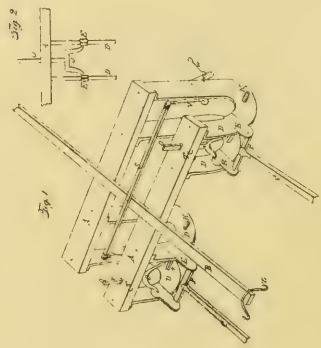
No. 68,648. Patented Sept. 10, 1867.



P. W. SMITH

Wheel Cultivator.

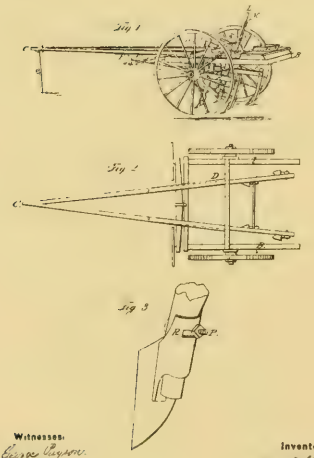
No. 68,662. Patented Sept. 10, 1867.



W. B. YOUNG.

Wheel Cultivator.

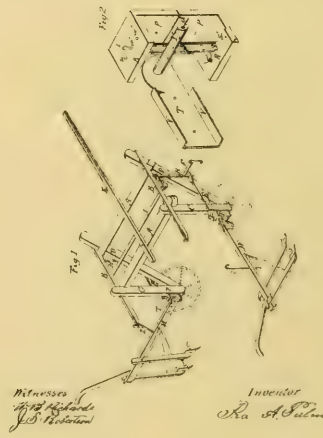
No. 68,679. Patented. Sept. 10, 1867.



I. A. PALMER.

Wheel-Cultivator.

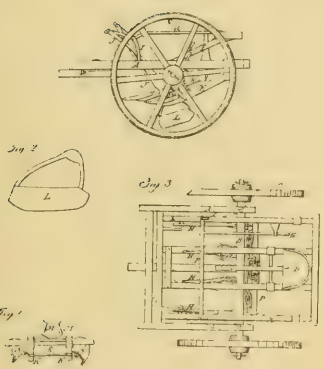
No. 68,784. Patented Sept. 10, 1867.



M. SWEET.

Wheel Cultivator.

No. 68,903. Patented Sept. 10, 1867.



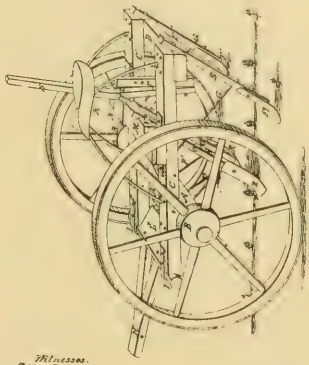
Witnesses:

Inventor.

E. DAVIES, Jr

Wheel-Cultivator

No. 68,848 Patented Sept. 17, 1867



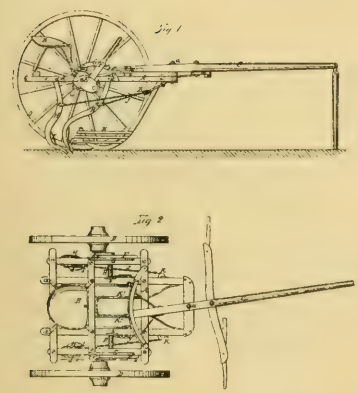
Witnesses.

Inventor.

D. S. STAFFORD.

Wheel Cultivator.

No. 68,910. Patented Sept. 17, 1867.



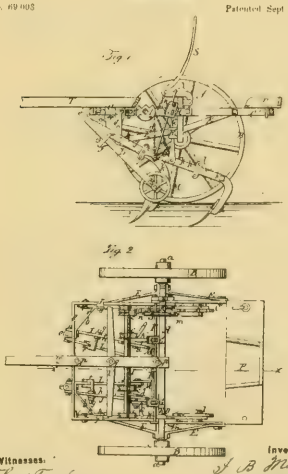
Witnesses:

Inventor.

J. B. MAHON

Wheel-Cultivator

No. 69,003 Patented Sept 17 1867.



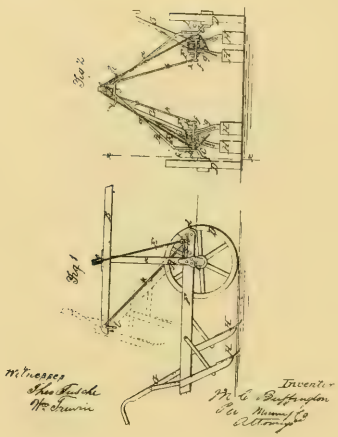
Witnesses:

Inventor.

M. C. BUFFINGTON.

Wheel Cultivator.

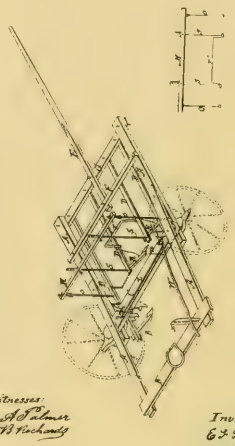
No. 69,071 Patented Sept. 24, 1867



E. F. DHART

Wheel-Cultivator

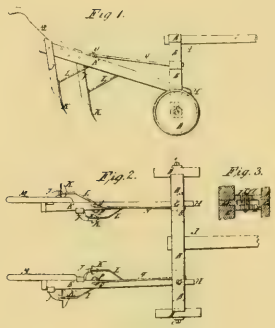
No. 69,081 Patented Sept. 24, 1867



J. Marsh:

Wheel Cultivator:

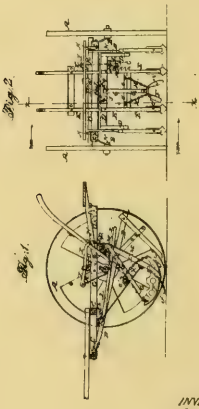
No 69,109 Patented Sept 24, 1867



J. H. BARLEY.

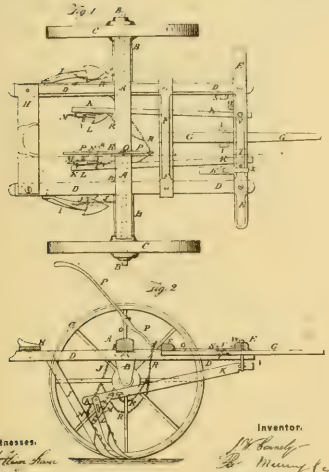
Wheel-Cultivator.

No. 69,162. Patented Sept. 24, 1867



J. W. CONNELY.
Wheel-Cultivator

No. 69,186. Patented Sept 24 1867

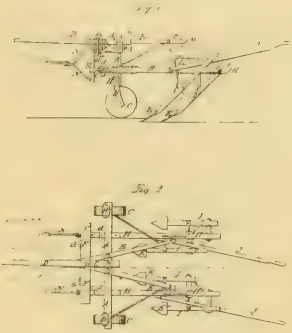


Witnesses.
J. Thos Shaw
R. Freeman

Inventor.
J. W. Connely
By Munn & Co.
Attorneys.

J. SCHRÖDER
Wheel Cultivator.

No. 69,255. Patented Sept. 24, 1867

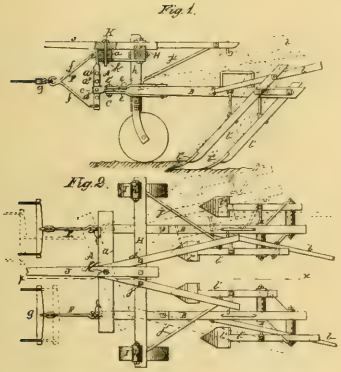


Witnesses:
Thos Tasche
Wm. Trevin

Inventor.
John Schroder
Jos Munn & Co
Attys.

J. SCHRODER,
Assignor to H. H. PATTEN
CULTIVATOR.

No. 7,496. Reissued Feb. 6, 1877.

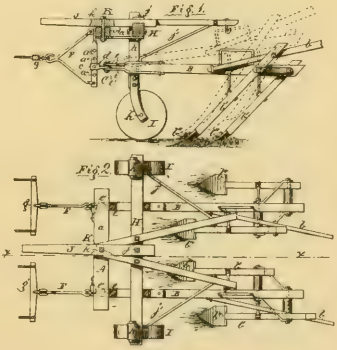


Witnesses
A. Richards
R. Hanney

Inventor
John Schroder
By W. B. Richards
Atty.

J. SCHRODER.
Assignor to H. H. PATTEN.
CULTIVATOR.

No. 7,497. Reissued Feb. 6, 1877.



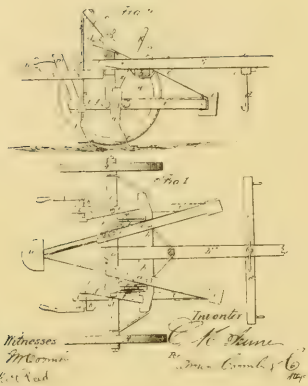
Witnesses:
A. Richards
Chas Tupper

Inventor:
John Schroder
By W. B. Richards
Atty.

C. M. JENNE

Wheel-Cultivator

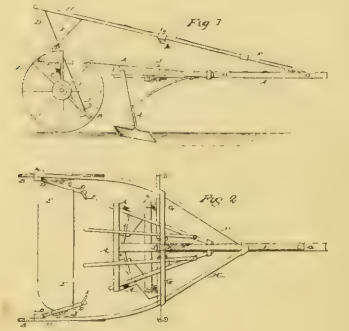
No. 69,442 Patented Oct. 1, 1867



J. M. MORSE

Wheel-Cultivator

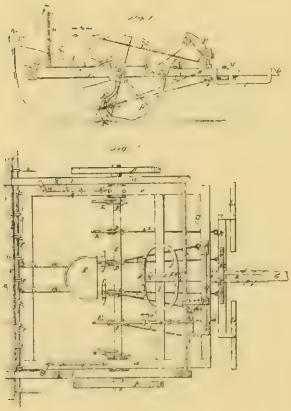
No. 69,468. Patented Oct. 1, 1867



TUTTLE & GANS.

Wheel Cultivator.

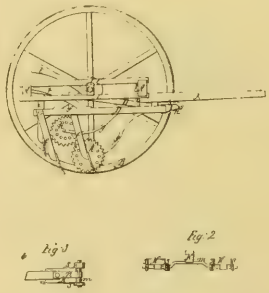
No. 69,725. Patented Oct. 8, 1867.



A. H. Allison

Wheel Cultivator

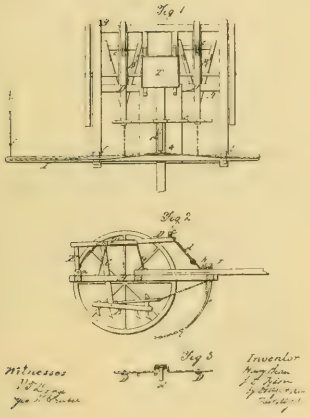
No. 69,743 Patented Oct. 15, 1867.



BEAN & TYSON.

Wheel-Cultivator.

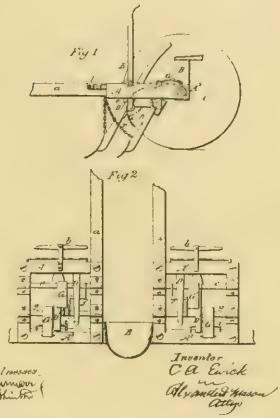
No. 69,750 Patented Oct 15, 1867.



C. A. EWICK

Wheel-Cultivator.

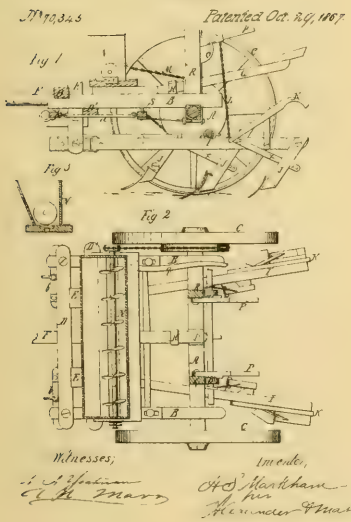
No. 70,324. Patented Oct 29, 1867.



A. S. Markham

Wheel Cultivator

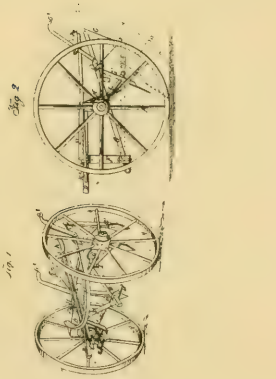
No. 70,345 Patented Oct. 29, 1867.



WALKER & WEED.

Wheel Cultivator.

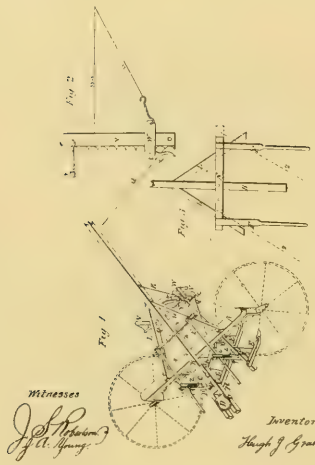
No. 70,381. Patented Oct. 29, 1867.



H. J. GRAHAM

Wheel-Cultivator

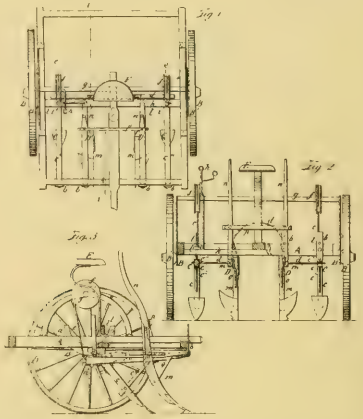
No. 70,430 Patented Nov 5, 1867



J. H. RANKIN.

Wheel Cultivator.

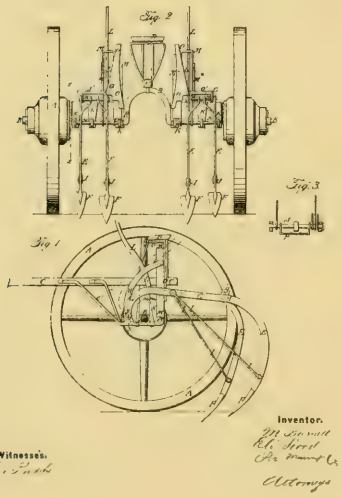
No. 70,615. Patented Nov. 5, 1867.



BARNETT & WOOD

Wheel-Cultivator.

No. 70,779. Patented Nov 12, 1867.

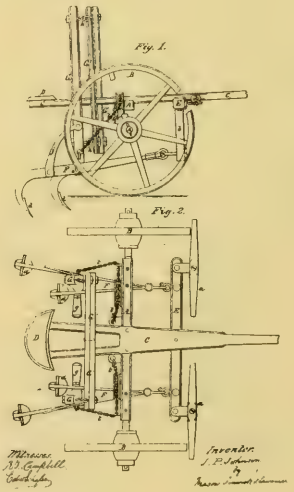


Sheet 1. 2. Sheets.

J. P. Johnson.

Cultivator.

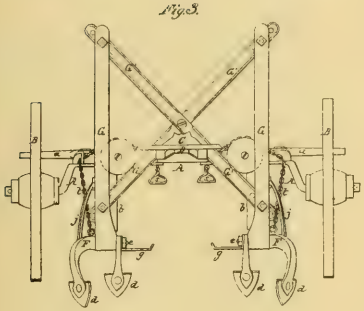
No 71623 Patented Dec. 3, 1867.



Sheet 2. 2 Sheets

J. P. Johnson.
Cultivator.
No 71623 Patented Dec. 3, 1867.

Fig. 3.



Witnesses.
N. B. Campbell
Edw. Schofer

Inventor.
J. P. Johnson
by
Mason, Fenwick & Lawrence

I. Barber.
Cultivator.
No 71834 Patented Dec. 3, 1867.

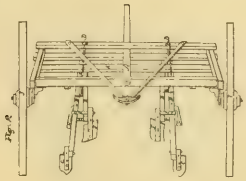


Fig. 2.

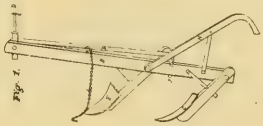


Fig. 1.

Witnesses.
Robert A. Heing
Geo. Tompkins

Inventor.
Ira Barber

John Cross & John C. Tunnisen's, Improvement in Cultivators.

Fig. 1.

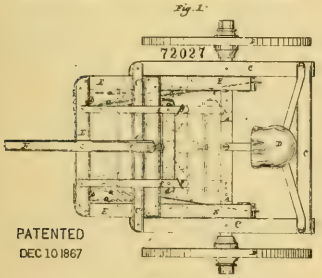
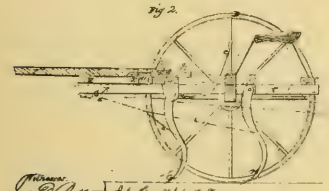


Fig. 2.



Witnesses
Jno. D. Clark
W. C. Hilsey

Inventors
John Cross & John C. Tunnisen
By their attorney, A. Wellington

H. Howe.
Cultivator.
No 72297 Patented Dec. 17, 1867.

Fig 1

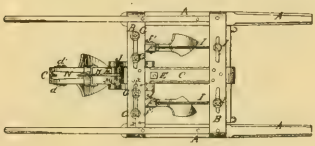


Fig 3

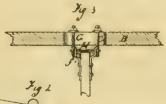


Fig 2

Witnesses
Geo Tuthe
Wm Simon

Inventor
Henry Howe
Per Munn & Co

P. COONROD.

DOUBLE CULTIVATOR.

72456

PATENTED DEC 24 1867

Fig 1

Fig 2

Witnesses
D. Hamilton
Jno R Hayden

P. Coonrod
Inventor
by J. B. Turner
his Attorney in fact

2 Sheets Sheet 1

J. E. Brooks

Cultivator.

No 72598 Patented Dec. 24, 1867

Witnesses
George Wheeler

Inventor
Joseph E. Brooks
by Coburn & Mann

2 Sheets Sheet 2

J. E. Brooks.

Cultivator.

No 72598 Patented Dec. 24, 1867.

Fig 3

Witnesses
George Wheeler
Thomas Wheeler

Inventor
Joseph E. Brooks
by Coburn & Mann

J. T. BALTIMORE.

Fig 1 CULTIVATOR

72780

PATENTED DEC 31 1867

Fig 2.

Witnesses
J. T. Orth
Ann Johnson

Inventor
J. T. Baltimore
by Coburn & Mann
his Attys

R. Carter's Improved Cultivator.

72835

PATENTED
DEC 31 1867

Fig 1

Fig 2

Fig 3

Witnesses
Thos Snoke
J. Adams

Inventor
R. Carter
By Munn & Co
Attorneys

S. G. Peabody
Cultivator

72889

PATENTED
DEC 31 1867

Fig 1

Fig 2

Witnesses:
Thos Snoke
J. A. Fraser

Inventor
S. G. Peabody
By Munn & Co
Attorneys

2 Sheets Sheet 1

D. Churchill.
Cultivator
No 72975 Patented Jan. 7, 1868.

Fig. 3

Fig 1

Witnesses
P. F. Dodge

D. Churchill
Inventor
by Dodge & Munn
Attys

2 Sheets Sheet 2

D. Churchill.
Cultivator.
No 72975 Patented Jan. 7, 1868.

Fig 4

Fig 5

Fig 6

Fig 2

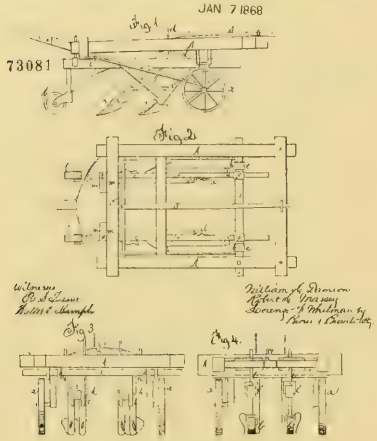
Witnesses
P. F. Dodge

D. Churchill
Inventor
by Dodge & Munn
Attys

Dennison, Massey & Whitman, Cultivator & Plow.

PATENTED
JAN 7 1868

73081

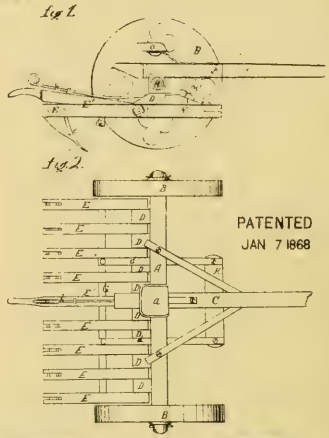


Witnesses
R. S. Green
Robert Humphreys

William J. Dennison
Robert A. Massey
Lorenzo J. Whitman, by
Brown & Bartlett

W. O. Hargrave, Cultivator.

73094



PATENTED
JAN 7 1868

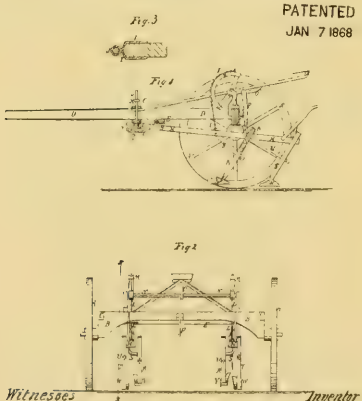
Witnesses.
A. S. Gretchen
E. R. Shaw

Inventor.
W. O. Hargrave
per
Alexander H. Wilson
Atty

73166

S. H. Cox & W. H. Pence, Corn Plow.

PATENTED
JAN 7 1868

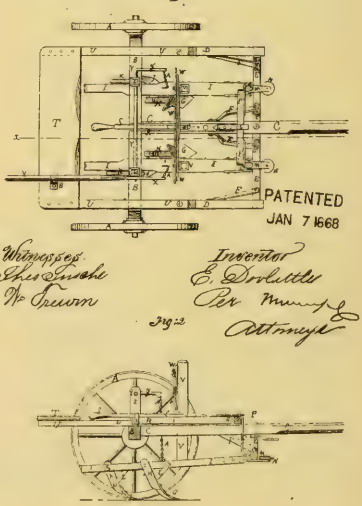


Witnesses
Thos Crosby
J. A. Shaw

Inventor
S. H. Cox
W. H. Pence
Per Munn & Co
Attorneys

73172

Edwin Doolittle's Cultivator.



PATENTED
JAN 7 1868

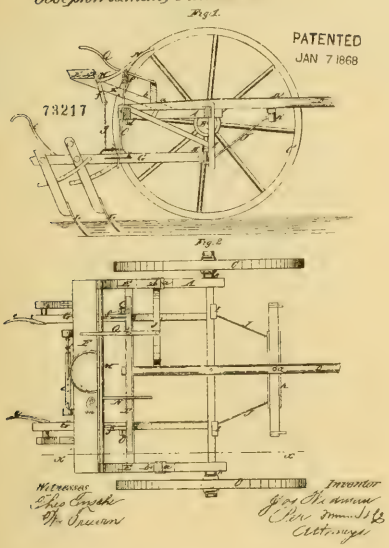
Witnesses.
Thos Crosby
W. Brown

Inventor
E. Doolittle
Per Munn & Co
Attorneys

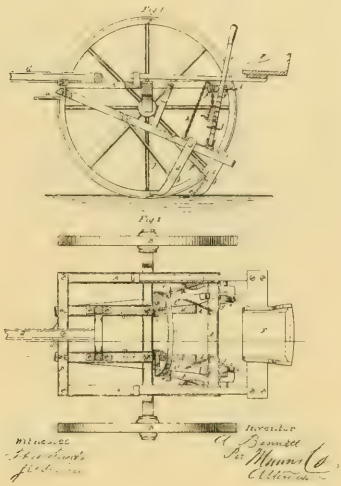
Joseph Widman, Cultivator.

PATENTED JAN 7 1868

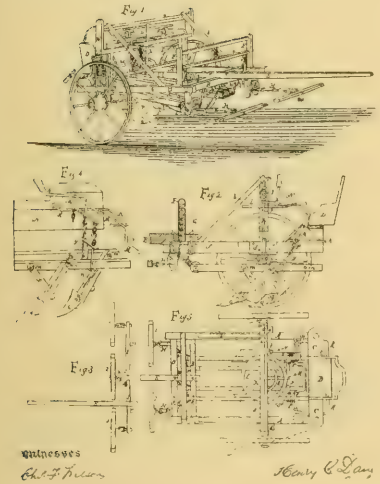
73217



A. Bennett.
Cultivator.
No 73224 *Patented Jan. 14, 1868.*



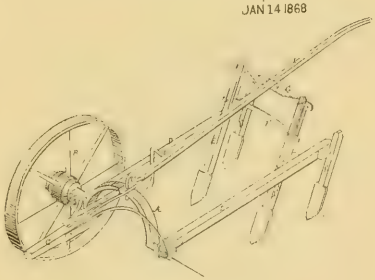
S. T. Skinner.
Plow.
No 73264 *Patented Jan 14, 1868.*



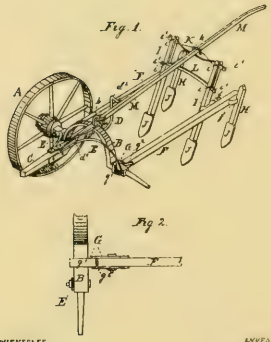
Jesse C. Boyd's
Cultivator

73291

PATENTED JAN 14 1868



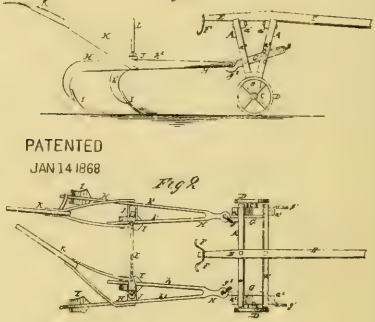
J. C. BOYD.
Assignor to himself, C. P. Wilson and I. L. Boylett
Cultivator.
No. 8,406. Reissued Sept. 10, 1878.



WITNESSES.
James B. Lyons
R. P. Dayton.

INVENTOR
Jesse C. Boyd,
per C. Bradford
Attorney

7339 2 J. B. Sexton's Cultivator
Assigned to Self & John S. Andrew



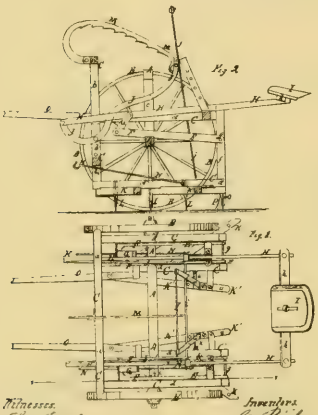
PATENTED
JAN 14 1868

Witnesses.
Theo Sinsche
J. A. Shaw

Inventor.
J. B. Sexton
Per Munn & Co
Attorneys

Sheet 1-2 Sheets

Rich & Neisler.
Cultivator & Harrow.
No 73547 Patented Jan. 21, 1868.

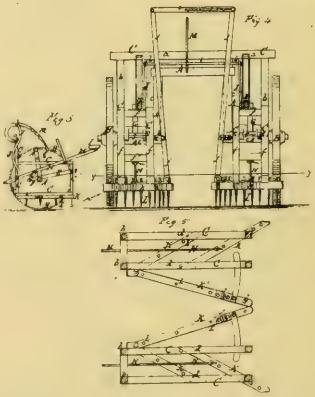


Witnesses.
Theo Sinsche
H. Sturm

Inventors.
C. Rich
O. G. Neisler
Per Munn & Co
Attorneys

Sheet 2 2 Sheets

Rich & Neisler.
Cultivator & Harrow.
No 73547 Patented Jan. 21, 1868.



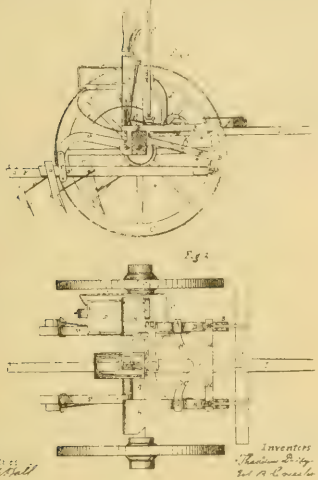
Witnesses
Theo Sinsche
H. Sturm

Inventors.
C. Rich
O. G. Neisler
Per Munn & Co
Attorneys

Donely & Cressler.

Shovel-Plow.

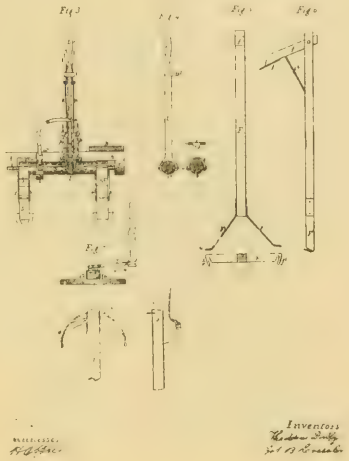
No. 73699 Patented Jan. 28, 1868



Donely & Cressler

Shovel-Plow.

No. 73699 Patented Jan. 28, 1868

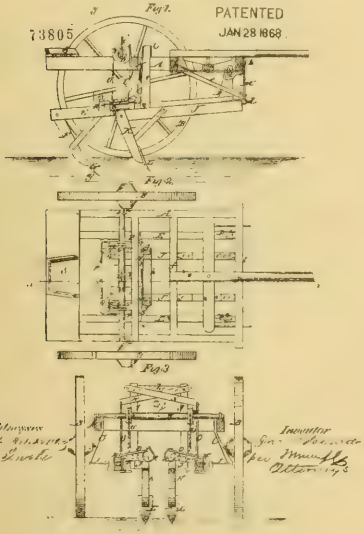


John T. Herndon, Cultivator.

PATENTED

JAN 28 1868.

73805



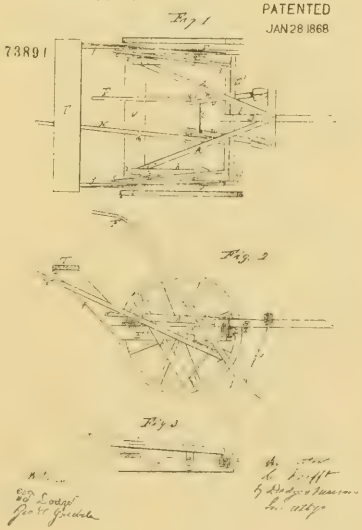
C. HEFFT.

CULTIVATOR.

PATENTED

JAN 28 1868

73891

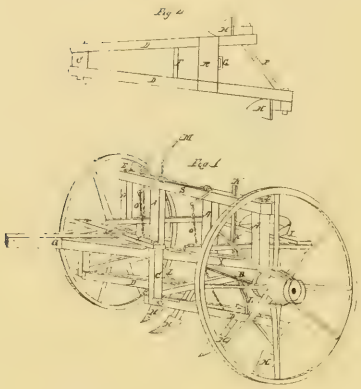


Sheet 1-2 Sheets.

N. S. Johnson.

Corn-Cultivator

No 73979 Patented Feb. 4, 1868.



Witnesses.
Jno. E. Bachelder
Jas. A. Harrison

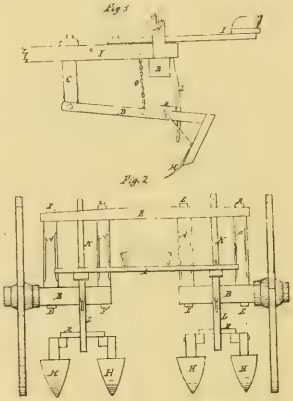
Inventor.
Nathan S. Johnson

Sheet 2-2 Sheets.

N. S. Johnson.

Corn-Cultivator.

No 73979 Patented Feb. 4, 1868.



Witnesses.
Jno. E. Bachelder
Jas. A. Harrison

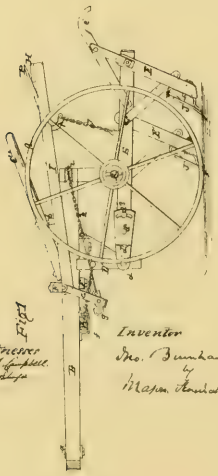
Inventor.
Nathan S. Johnson

4 Sheets Sheet 1

J. Burnham.

Cultivator.

No 74044 Patented Feb. 4, 1868.



Witnesses
W. J. Campbell
E. Knapp

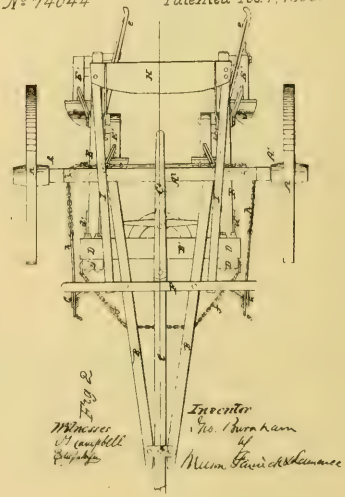
Inventor
Jno. Burnham
by
Mason, Fenwick & Lawrence

4 Sheets Sheet 2

J. Burnham.

Cultivator.

No 74044 Patented Feb. 4, 1868.

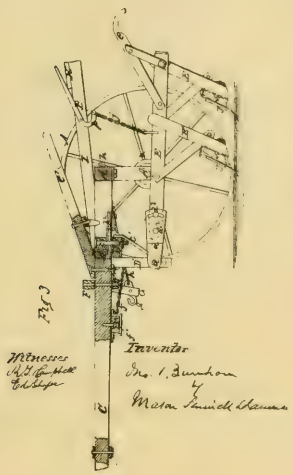


Witnesses
W. J. Campbell
E. Knapp

Inventor
Jno. Burnham
by
Mason, Fenwick & Lawrence

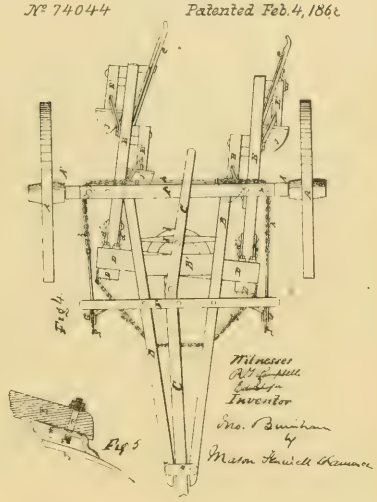
4 Sheets Sheet 3.

J. Burnham.
Cultivator.
No 74044 Patented Feb 4, 1868.

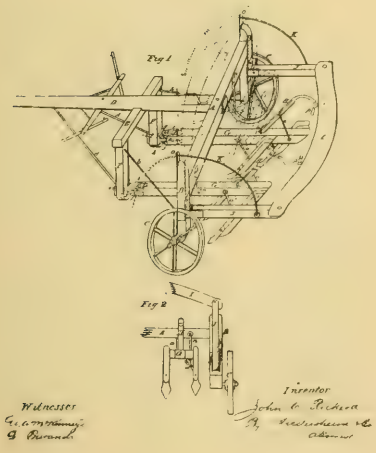


4 Sheets Sheet 4

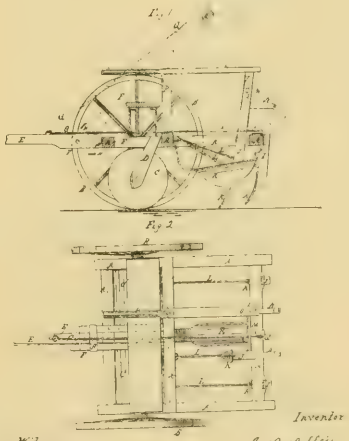
J. Burnham.
Cultivator.
No 74044 Patented Feb. 4, 1868



J. C. Rickerd.
Cultivator.
No 74138 Patented Feb. 4, 1868

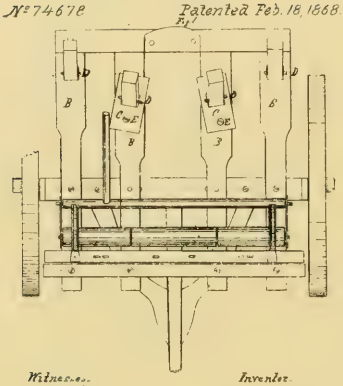


J. A. Alley
Plow
No 74267 Patented Feb 11 1868



Sheet 1-2 Sheets

J. Frank.
Cultivator.
No 74678 Patented Feb. 18, 1868.

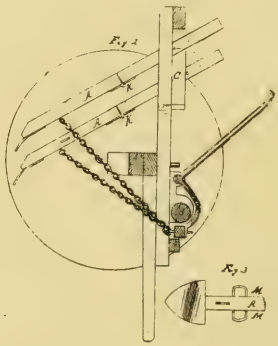


Witnesses.
J. E. Smith
A. G. Seylum

Inventor.
John Frank
Chipman Herring & Co
attys

Sheet 2 Sheets

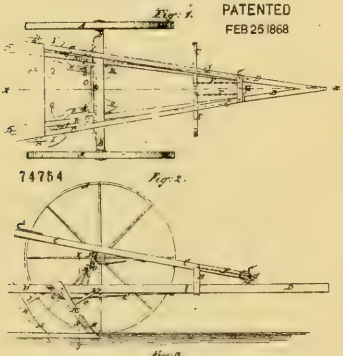
J. Frank
Cultivator.
No 74678 Patented Feb. 18, 1868.



Witnesses.
J. E. Smith
A. G. Seylum

Inventor
John Frank
Chipman Herring & Co
attys

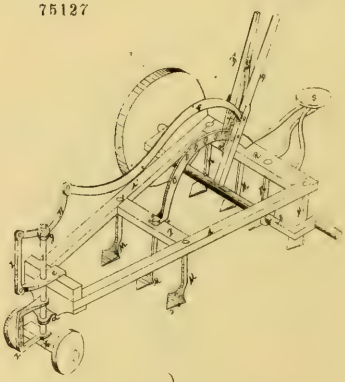
E. S. Easterday, Sulky Cultivator.
PATENTED
FEB 25 1868
74754



Witnesses:
W. H. Shepherd
Thos. Smith

Inventor:
E. S. Easterday
per Munn & Co
attorneys

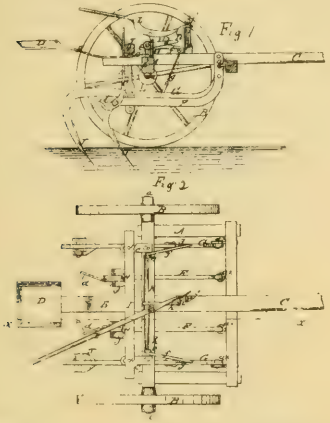
John Crowther's Cultivator
PATENTED
MAR 3 1868
75127



Witnesses
A. C. Fisher
W. H. Allen

Inventor
John Crowther
per
A. Lawrence & Bro
Atty

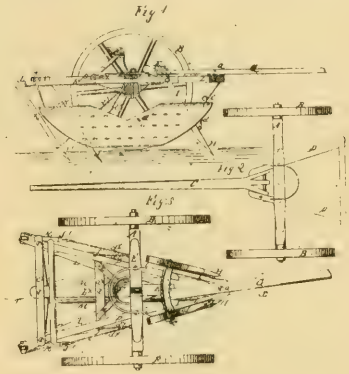
J. H. Reynerson.
Cultivator.
No 75647 Patented Mar 17, 1868.



Witness
W. C. Ashcraft
J. W. Fraser

Inventor
J. H. Reynerson
per Munn & Co
Attorneys

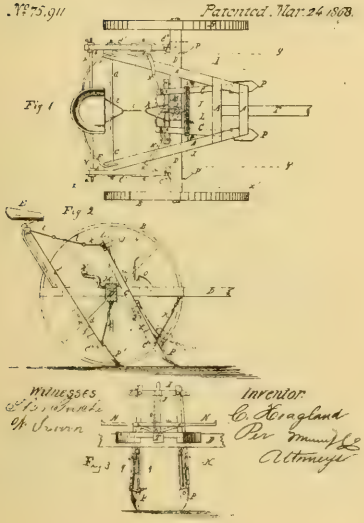
B. Anyan.
Cultivator
No 75826. Patented Mar. 24, 1868.



Witnesses
W. C. Ashcraft
J. W. Fraser

Inventor
Benjamin Anyan
per Munn & Co

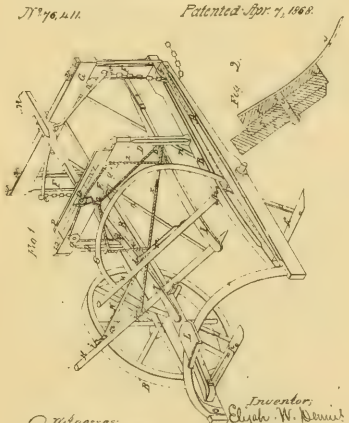
C. Hoagland,
Cultivator.
No 75,911 Patented Mar. 24 1868.



Witnesses
J. S. Swain
W. Swain

Inventor
C. Hoagland
Per Munn & Co
Attorneys

E. W. Dennis
Wheel Cultivator.
No 76,411 Patented Apr. 7, 1868.



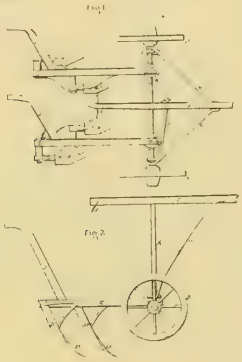
Witnesses:
C. S. Shaffer
A. A. Spencer

Inventor,
Elijah W. Dennis
for
Alexander Walker
Attorney

J. Wolf.

Wheel Cultivator.

No. 76,964. Patented Apr. 21, 1868.



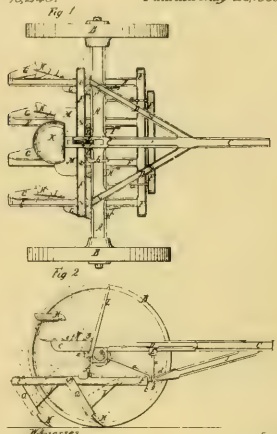
Witnesses

Inventor

O. Stone.

Wheel Cultivator.

No. 78,243. Patented May 26, 1868.



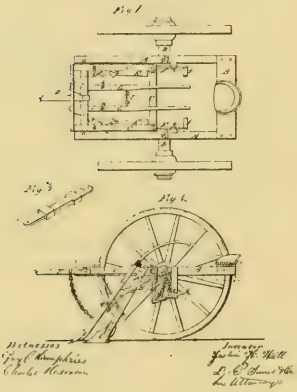
Witnesses,

Inventor,

J. H. Hill.

Wheel Cultivator.

No. 79,114 Patented Jun 23, 1868



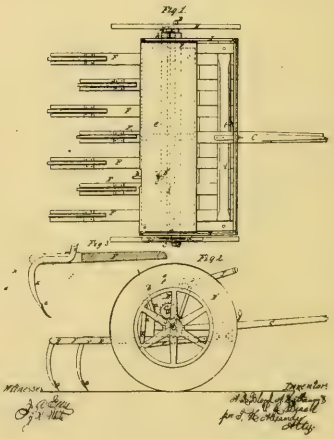
Witnesses

Inventor

BLOOD, HATHAWAY & BEACH.

Wheel Cultivator.

No. 79,304. Patented June 30, 1868.



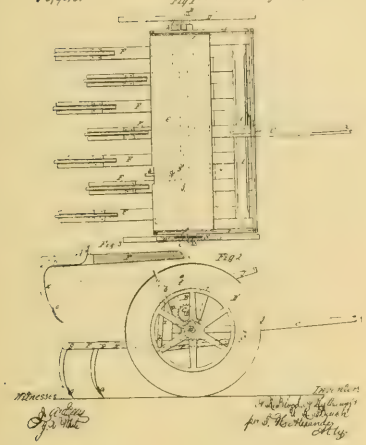
Witnesses

Inventors

Blood, Hathaway & Beach.

Wheel Cultivator.

No. 3,945. Patented May 5, 1871



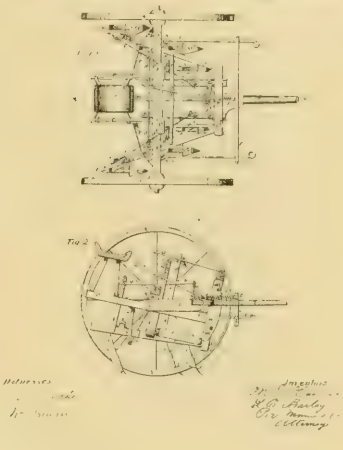
Witnesses

Inventors

Hanover & Bailey.

Wheel Cultivator.

No. 79,347. Patented Jun. 30, 1868



Witnesses

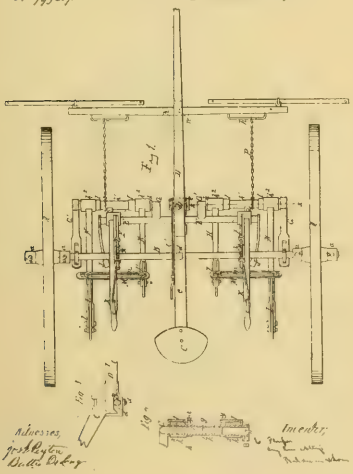
Inventors

Sheets & Sheets.

E. Phifer.

Wheel Cultivator.

No. 79,387. Patented Jun. 30, 1868.



Witnesses

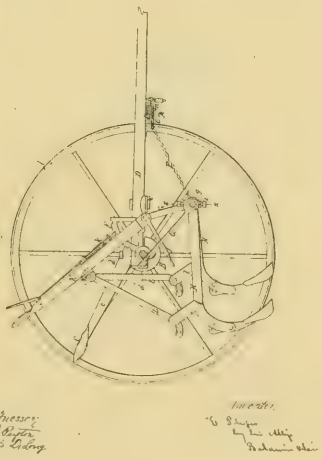
Inventor

Sheets & Sheets.

E. Phifer.

Wheel Cultivator.

No. 79,387. Patented Jun. 30, 1868



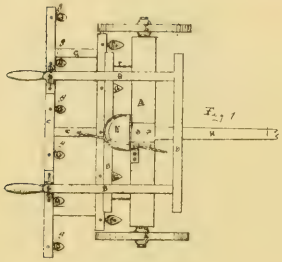
Witnesses

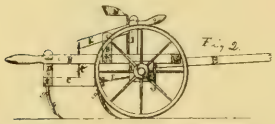
Inventor

J. H. Darey.

Wheel Cultivator.

No. 79450. Patented June 30, 1868.





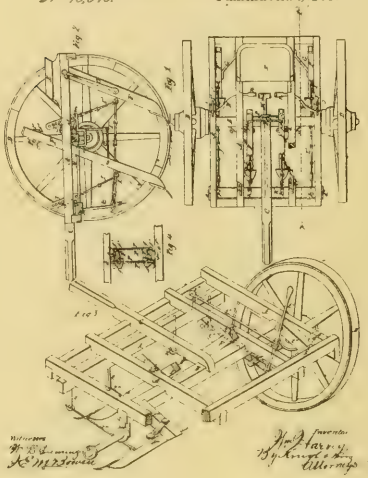
Inventor
John H. Darey
by his atty
Geo. H. Miller

Witnesses
Geo. H. Fleming
Geo. Beauty

W. Harry

Wheel Cultivator

No. 79570. Patented Jul. 7, 1868.



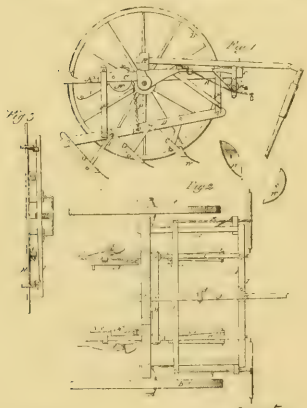
Witnesses
H. B. Fleming
H. M. Barnard

Inventor
Wm. Harry
By Knight & Hay
Attorneys

[illegible]

Wheel Cultivator.

[illegible] Patented Jul. 7, 1868.



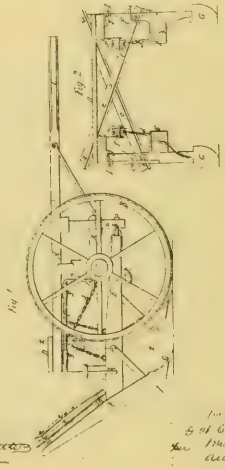
Witnesses
[illegible]

Inventor
C. Mfg. Kind
for A. Brand & Thurston
Attys.

C. W. Cook.

Wheel Cultivator

No. 79956. Patented Jul. 14, 1868.



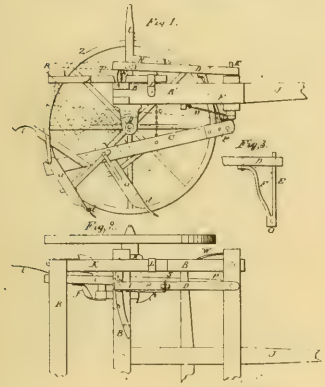
Witnesses
H. C. Ashbrook
Wm. A. Mayer

Inventor
C. W. Cook
for Thomas & Co
Attorneys

J. H. Skelly.

Wheel Cultivator.

No. 80,094. Patented Jul. 21, 1868.



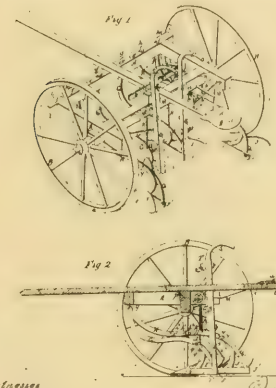
Witnesses,
Henry Bonn
Andrew Rankeburn

Inventor,
J. H. Skelly,
By his attorney,
J. Albert

J. Wise.

Wheel Cultivator.

No. 80,102. Patented Jul. 21, 1868.



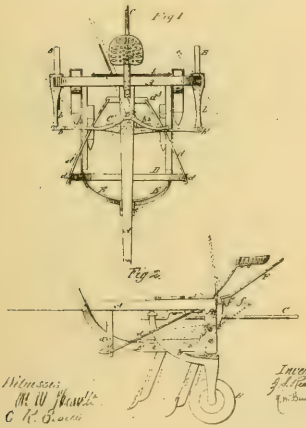
Witnesses
H. C. Burton
H. E. McBurney

Inventor
Isaac Wise
By Kingsley & Mc
Atlanta Ga.

S. J. Fox.

Wheel Cultivator.

No. 80,221. Patented Jul. 21, 1868.



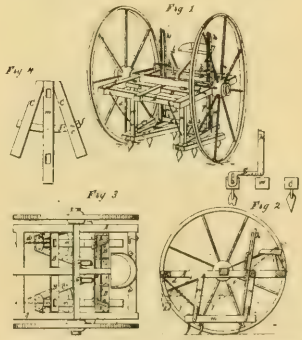
Witnesses:
M. W. Marvin
C. R. Brown

Inventor:
S. J. Fox
By M. Burton Atty.

H. Preston.

Wheel Cultivator.

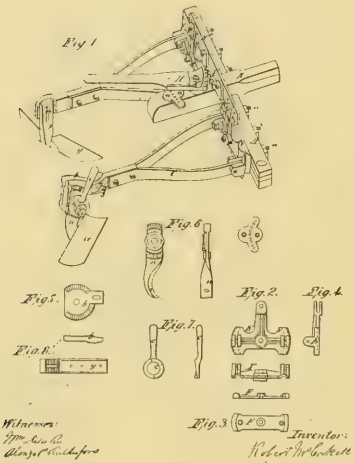
No. 80,502. Patented Jul. 28, 1868.



Witnesses
J. C. Kelling
R. J. Sumner

Inventor
Hiram Preston
By G. H. Milsom
Atty.

R. McCorkell.
Wheel Cultivator.
No. 80,556 Patented Aug. 4, 1868.



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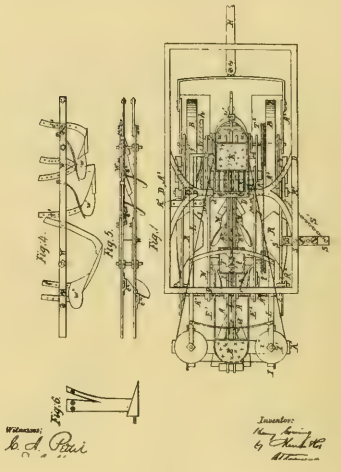
H. Cowing,
Agricultural Machine,
No. 80,795, Patented Aug. 4, 1868.



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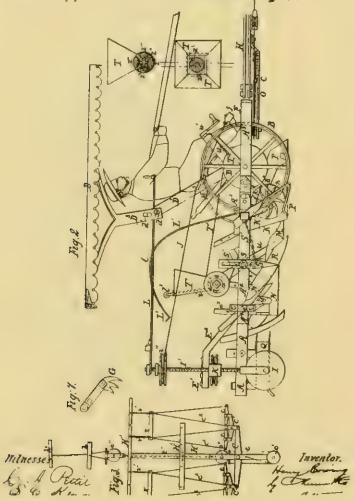
Agricultural Machine,
No. 80,795, Patented Aug. 4, 1868.



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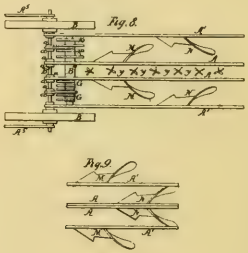
Agricultural Machine,
No. 80,795, Patented Aug. 4, 1868.



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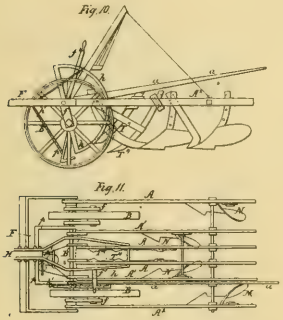
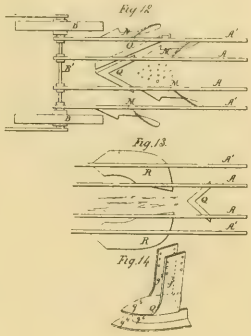
H. Cowing,
Agricultural Machine
No 80,795, Patented Aug. 4, 1868.



Witnesses.
C. A. Petit
Inventor.
Henry Cowing
by E. Knight & Co
Attorneys

Sheet 5. 6 Sheets

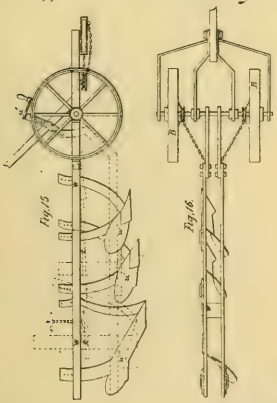
H. Cowing,
Agricultural Machine,
No 80,795, Patented Aug. 4, 1868.



Witnesses:
C. A. Petit
Inventor
Henry Cowing
by E. Knight & Co

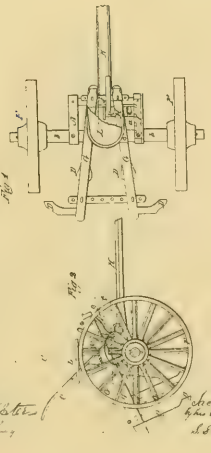
Sheet 6 6 Sheets

H. Cowing,
Agricultural Machine,
No 80,795, Patented Aug. 4, 1868.



Witnesses
C. A. Petit
Inventor
Henry Cowing
by E. Knight & Co

J. Reichard
Wheel Cultivator
No 81,108 Patented Aug. 18, 1868.

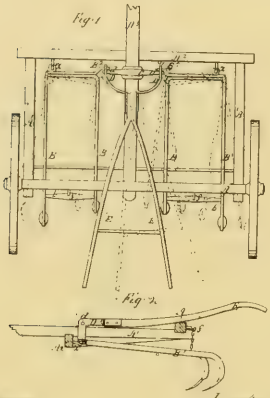


Witnesses
J. J. Webster
Inventor
Jacob Reichard
by his Att.
L. S. Webster & Co

F. McCraight

Wheel Cultivator

No. 81,660 Patented Sept. 1, 1868



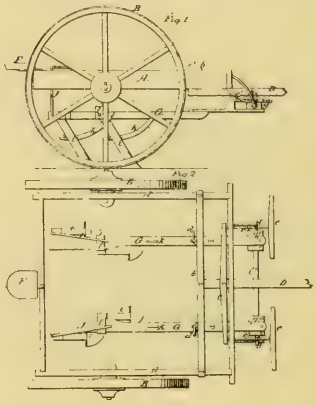
Witnesses:
Andrew Thomas
W. C. Stumpf, Jr.

Inventor,
A. M. Caught by
J. W. Beadle Atty

A. H. Allison

Wheel Cultivator

No. 82,060. Patented Sept. 15, 1868.



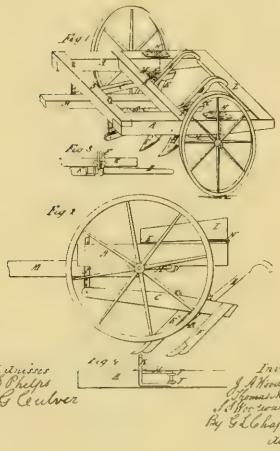
Witnesses
J. A. Giles.
J. W. Hall.

Inventor
A. H. Allison
per
T. H. Hall
Atty.

J. A. & S. S. Woodward & Mason

Wheel Cultivator

No. 82,191. Patented Sept. 15, 1868



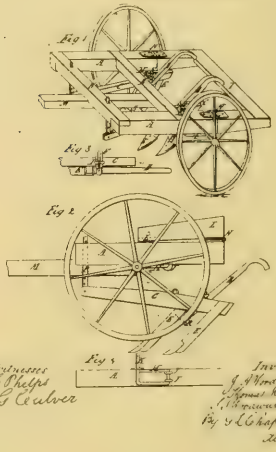
Witnesses
J. E. Phelps
E. G. Culver

Inventors
J. A. Woodward
Thomas Mason
S. S. Woodward
By G. E. Chapin
Atty

J. A. & S. S. Woodward & Mason

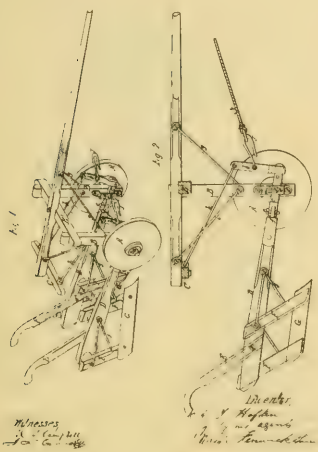
Wheel Cultivator

No. 3,541 Reissued Jul. 6, 1869



Witnesses
J. E. Phelps
E. G. Culver

Inventors
J. A. Woodward
Thomas Mason
S. S. Woodward
By G. E. Chapin
Atty


Wheel Cultivator
Patented Sept 22, 1868
Witnesses
Inventor

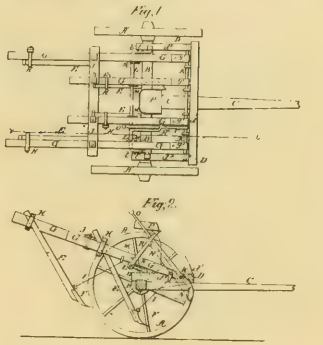
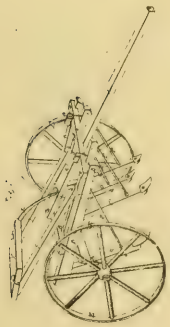
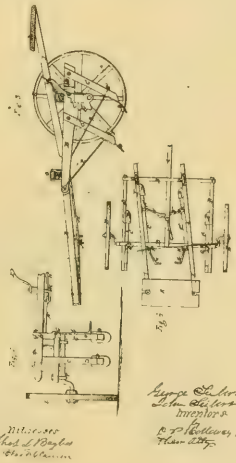


Fig. 1
Fig. 2
Witnesses:
Inventor:

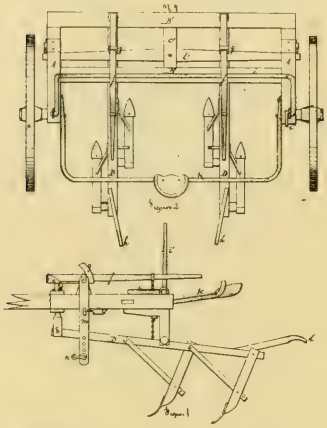

Wheel Cultivator
No. 80616
Patented Sept. 29 1868.


Wheel Cultivator.
No. 80616.
Patented Sept. 29 1868.

E. F. & J. N. Gray,

Wheel Cultivator.

No. 82,933. Patented Oct. 13, 1868.



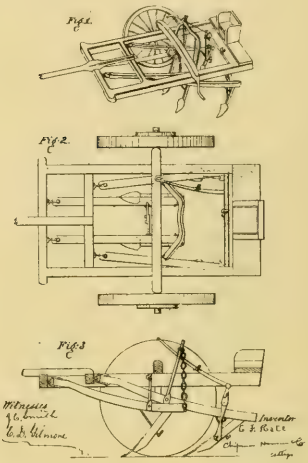
Witnesses, Charles Thomas, Chas. Thomas Jr.

Inventor, A. S. & T. Gray by their Atty. W. Thacher, Atty.

E. F. Kale,

Wheel Cultivator.

No. 83,093. Patented Oct. 13, 1868.



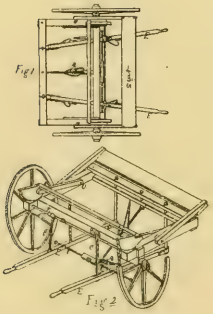
Witnesses, J. L. Smith, E. D. Gilmore.

Inventor, E. F. Kale, Chapman & Co. Attys.

A. M. Griswold,

Wheel Cultivator.

No. 82,487. Patented Oct. 29, 1868.



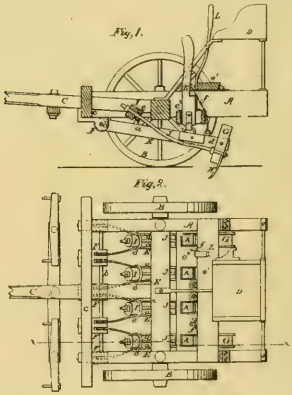
Witnesses, A. S. Reilly, J. Lumber.

Inventor, A. M. Griswold, By D. R. Reilly & Son, Attorneys.

J. H. B. Heller.

Wheel Cultivator.

No. 83,509. Patented Oct. 27, 1868.



Witnesses, Fred. A. Hoyt, G. E. Gillen.

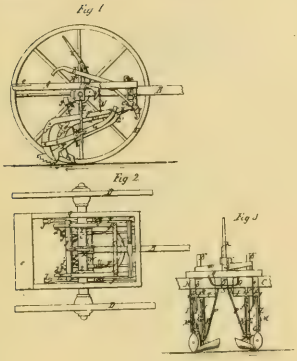
Inventor, Jacob H. B. Heller, for Munn & Co. Attorneys.

Sheet 1, Sheet 2.

J. Mallon.

Wheel Cultivator.

No. 83,519. Patented Oct. 27, 1868.



Witnesses;
Warren Hawley
Daniel Mallon

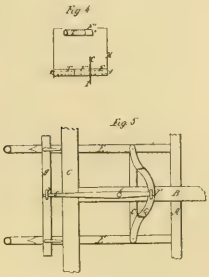
Inventor,
James Mallon
By his atty
G. S. Chapin

Sheet 1, Sheet 2.

J. Mallon.

Wheel Cultivator

No. 83,519. Patented Oct. 27, 1868.



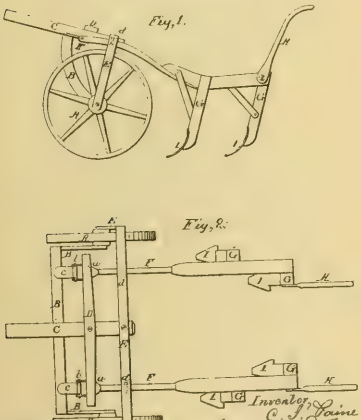
Witnesses;
Warren Hawley,
Daniel Mallon.

Inventor,
James Mallon
By his attorney
G. S. Chapin.

C. J. Paine.

Wheel Cultivator.

No. 83,637. Patented Oct. 27, 1868.



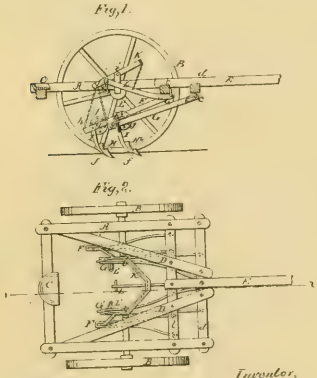
Witnesses;
Jno. Heinlein
Leopold Deuth

Inventor,
C. J. Paine
per Alexander Hudson
Atty.

P. R. Tolles

Wheel Cultivator

No. 83,569. Patented Oct. 27, 1868.



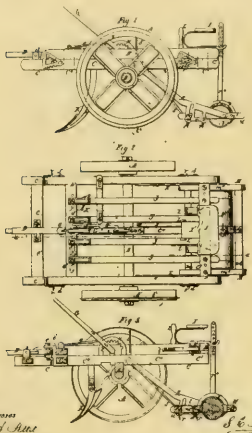
Witnesses;
Jno. A. Hogan
G. W. Cotton

Inventor,
P. R. Tolles
per Munn & Co's
attorneys

S. C. Thornton.

Wheel Cultivator.

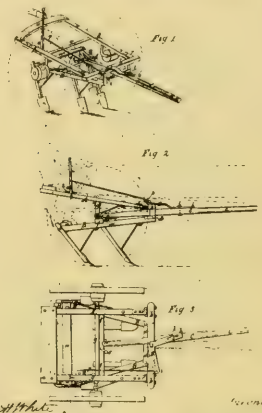
No. 92,675. Patented Nov. 3, 1869.



S. Day.

Wheel Cultivator.

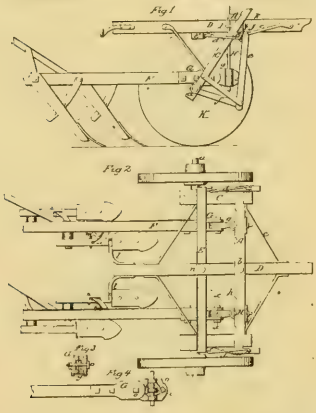
No. 93,939 Patented Nov. 10, 1869.



W. H. Edwards.

Wheel Cultivator.

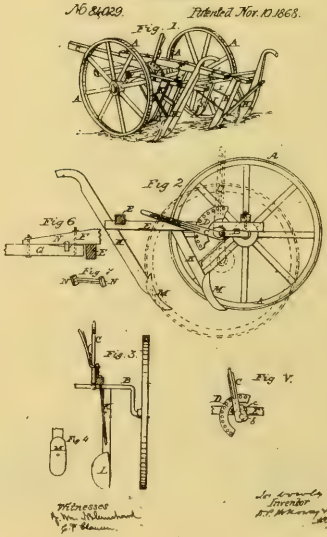
No. 88,914. Patented Nov. 10, 1868.



J. Vowles,

Wheel Cultivator.

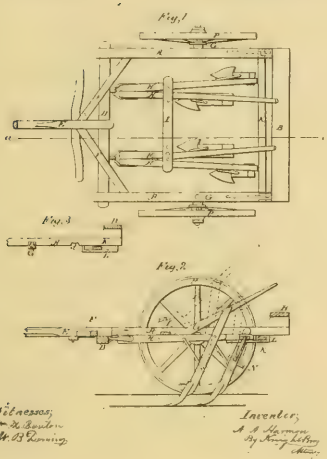
No. 84,029. Patented Nov. 10, 1868.



A. S. Harmon.

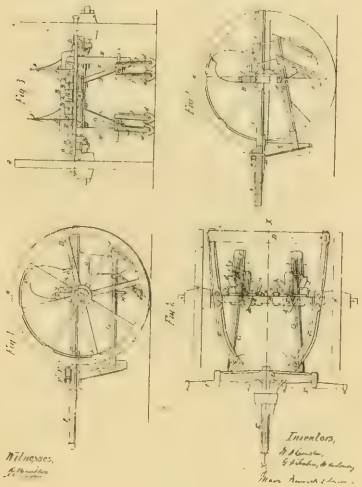
Wheel Cultivator

No. 84,184 Patented Nov. 17, 1868.



Coulter, Trabue & Lowrey

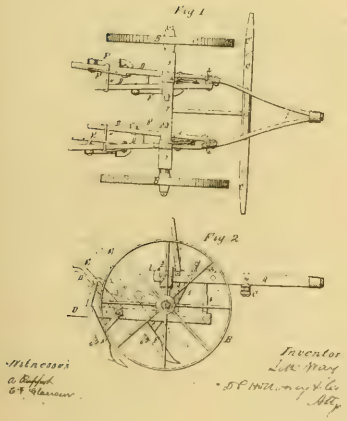
No. 84,613



S. Way

Wheel Cultivator

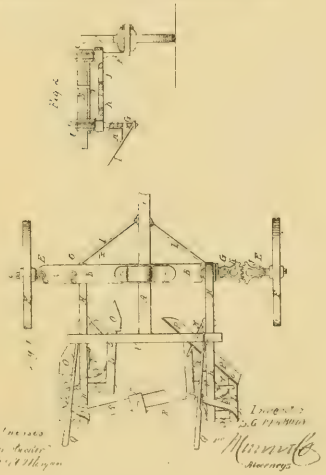
No. 84,149 Patented Nov. 24, 1868.



S. C. Peabody.

Wheel Cultivator

No. 84,575 Patented Dec. 1, 1868.



A. T. Spence

Wheel Cultivator

No. 84,658 Patented Dec 1, 1868

Fig 1

Fig 2

Witnesses

Inventor

Chappell & Montgomery.

Wheel Cultivator

No. 84,611. Patented Dec 1, 1868

Fig 1

Fig 2

Fig 3

Witnesses,

Inventors;

Isaac R. Chappell

James Montgomery

By Jno. C. Stanchfield

their attorney

R. Sandiford

Wheel Cultivator

No. 84,624 Patented Dec 1, 1868

Fig 1

Fig 2

Fig 3

Fig 4

Witnesses

Inventor

Roger Sandiford

Blanchard & Easton.

Wheel Cultivator

No. 84,768. Patented Dec 8, 1868.

Fig 1

Fig 2

Witnesses

Inventor

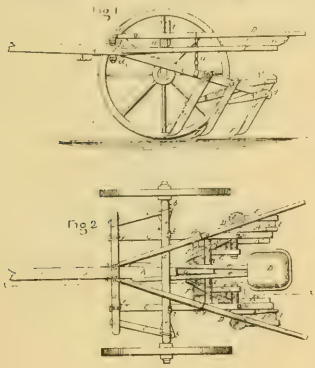
Jno. Alexander

Att'y

C. F. Rodler.

Wheel Cultivator

No. 84,776. Patented Dec. 8, 1868.



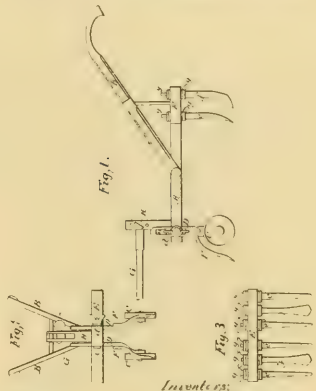
Witnesses

Inventor

Schuyler C. Johnson

Wheel Cultivator

No. 84,910. Patented Dec. 15, 1868



Witnesses,

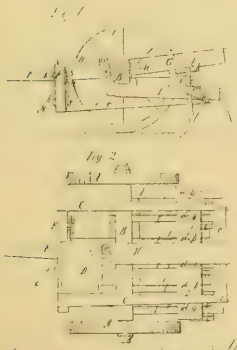
Inventors;

Sheet 1, 4 Sheets

C. Alford.

Wheel Cultivator.

No. 84,931. Patented Dec. 15, 1868.



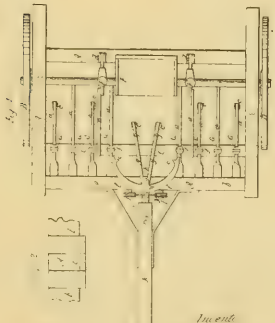
Witnesses;

Inventor;

J. H. Brinton.

Wheel Cultivator.

No. 84,936. Patented Dec. 15, 1868



Witnesses

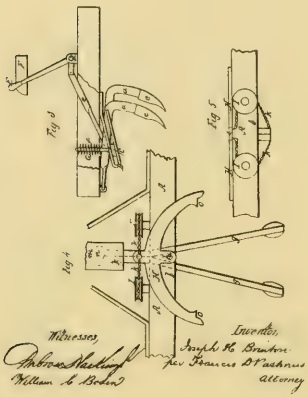
Inventor

Sheet 1. 3 Sheets.

J. H. Brinton.

Wheel Cultivator.

No. 84,935. Patented Dec. 15, 1868.

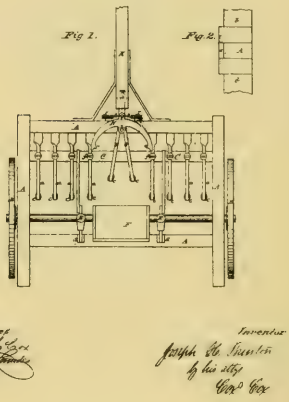


3 Sheets--Sheet 1.

JOSEPH H. BRINTON.

Improvement in Cultivators.

No. 4,939. Reissued June 11, 1872.

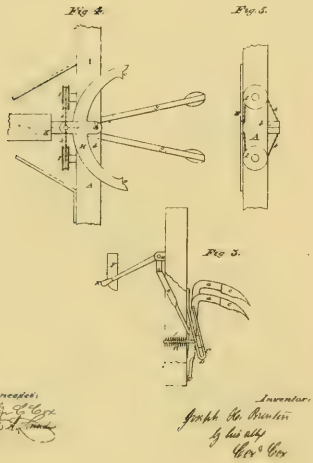


3 Sheets--Sheet 2.

JOSEPH H. BRINTON.

Improvement in Cultivators.

No. 4,939. Reissued June 11, 1872.

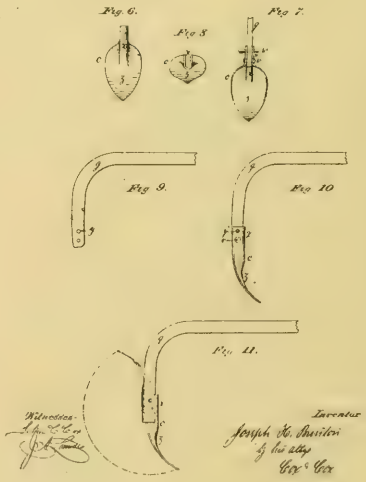


3 Sheets--Sheet 3.

JOSEPH H. BRINTON.

Improvement in Cultivators.

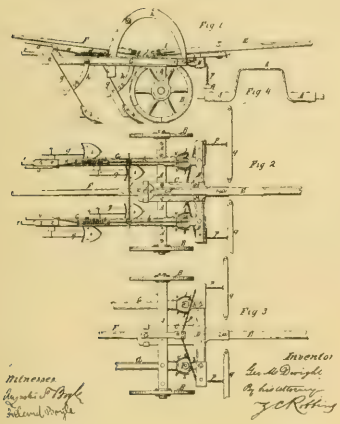
No. 4,939. Reissued June 11, 1872



G. M. Dwight.

Wheel Cultivator.

No. 85,001. Patented Dec. 15, 1868



Hinds & Gee.

Wheel Cultivator.

No. 85,095. Patented Dec. 22, 1868

Fig. 1.

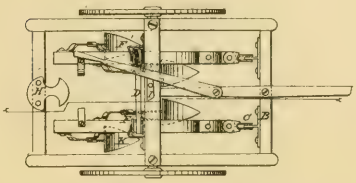
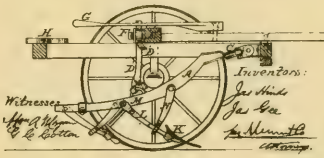


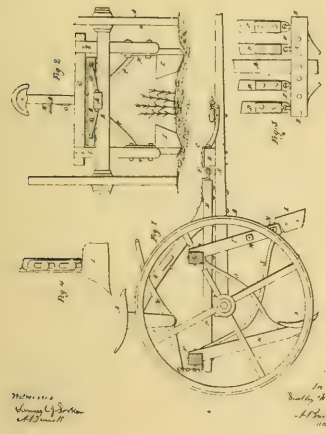
Fig. 2.



D. W. Travis.

Wheel Cultivator.

No. 85,130 Patented Dec. 22, 1868.

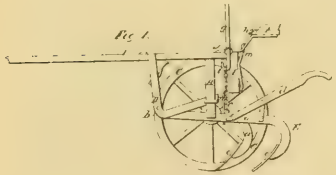


L. D. McClintick

Wheel Cultivator.

No. 85,233. Patented Dec. 22, 1868.

Fig. 1.



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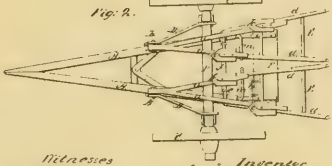
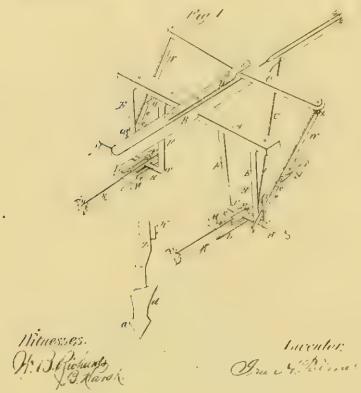


Witnesses

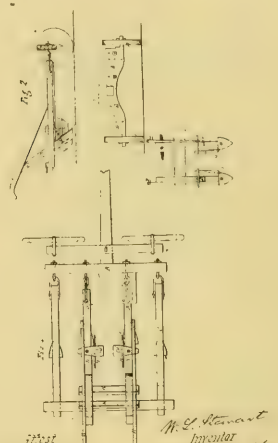
Inventor
L. D. McClintick



W. L. Stewart,

Wheel Cultivator.

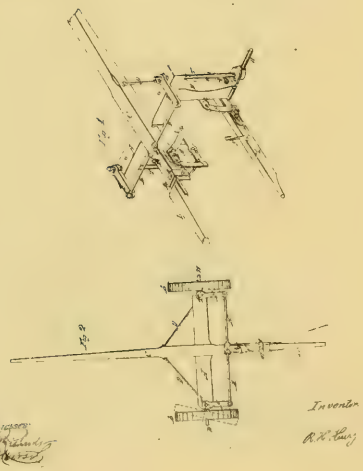
No. 85,488. Patented Dec. 29, 1868.



R. H. Henry

Cultivator

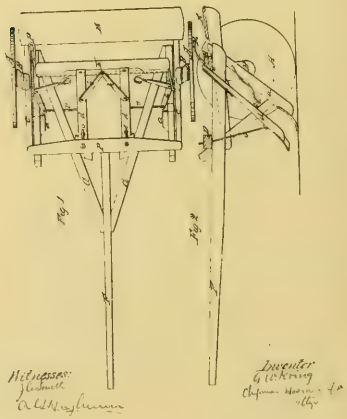
No. 85,662. Patented Jan. 5, 1869.



C. W. Kring.

Cultivator.

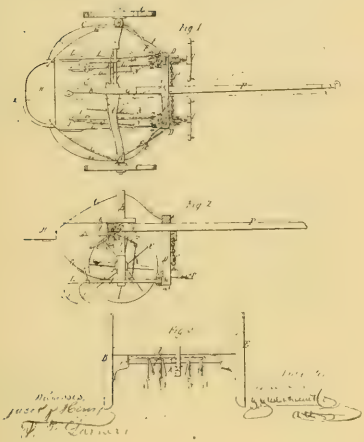
No. 85,675. Patented Jan. 5, 1869.



I. B. Gilbert.

Cultivator.

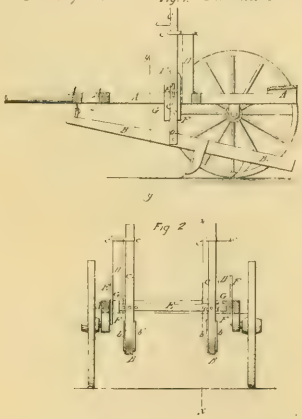
No. 85,736. Patented Jan. 12, 1869.



J. G. E. Gill,

Cultivator.

No. 85,812. Patented Jan. 12, 1869.



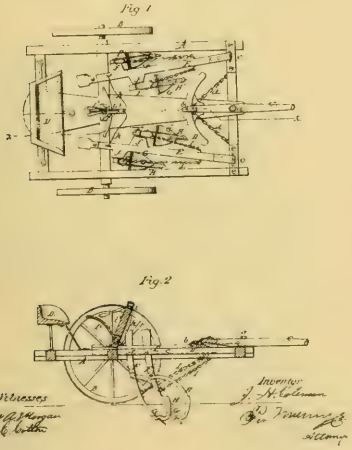
Witnesses:

Inventor:

J. H. Coleman,

Cultivator.

No. 86,003. Patented Jan. 19, 1869.



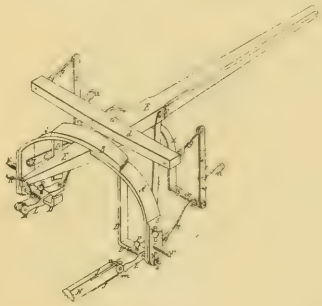
Witnesses

Inventor:

J. Huff.

Cultivator.

No. 86,160. Patented Nov. 26, 1869.



Witnesses.

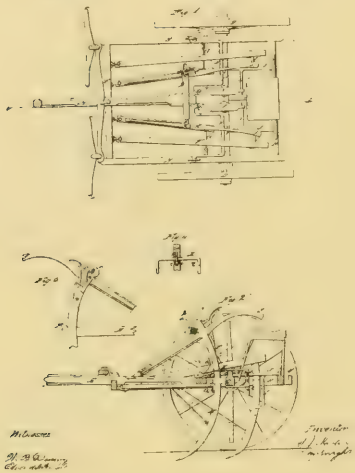
Inventor

2 Sheets—Sheet

T. J. Martin.

Cultivator.

No 86,170. Patented Jan 26, 1869.

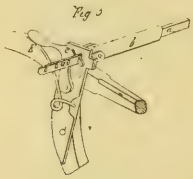


2 Sheets - Sheet 2

T. J. Martin.

Cultivator

No 86,170. Patented Jan. 26, 1869.



Inventor,

T. J. Martin

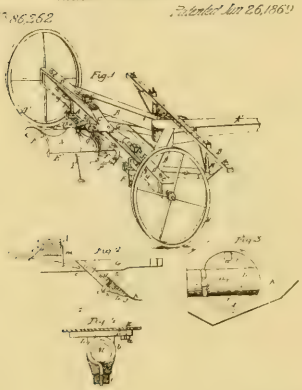
By Knight Bros

Attys

C. Wills

Wills' Cultivator

No 86,362 Patented Jan 26, 1869



Witnesses

C. H. Chapin

A. Hapgood

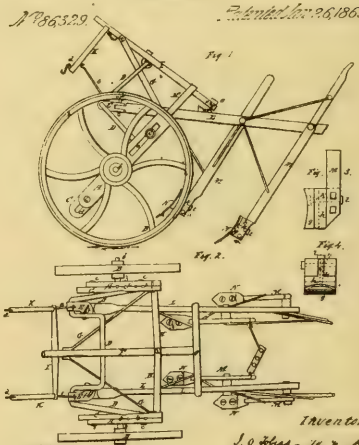
Inventor

Corn. Wills

Torrey & Bates.

Cultivator

No 86,329. Patented Jan. 26, 1869.



Witnesses:

Inventors:

J. O. Torrey & H. N. Bates

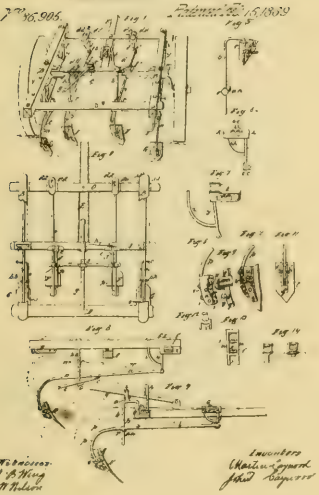
per Hamilton Ashton

Atty.

M. & J. Scrivner.

Cultivator.

No. 86,905. Patented Feb. 16, 1869.



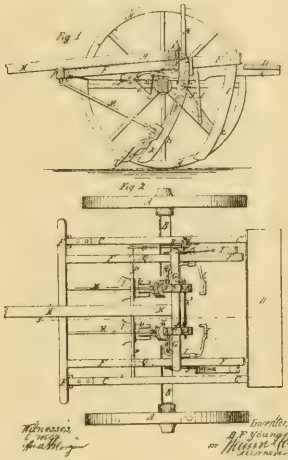
Witnesses
J. B. King
H. Nelson

Inventors
Martin Scrivner
John Scrivner

B. F. Young.

Cultivator.

No. 87,019. Patented Feb. 16, 1869.



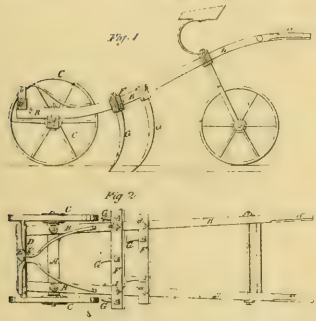
Witnesses
J. W. Hall
H. A. Wright

Inventor,
B. F. Young,
per Munn & Co.
Attorneys.

W. Day.

Cultivator.

No. 87,151. Patented Feb. 23, 1869.



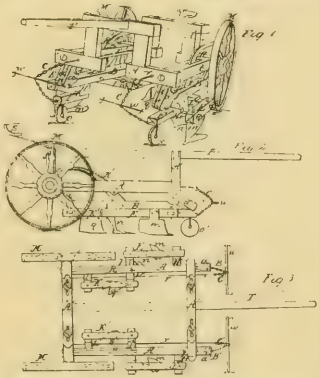
Witnesses
J. W. King
Geo. E. Wright

Inventor
W. Day
per Munn & Co.
Attys.

R. B. Robbins.

Wheel Cultivator.

No. 87,296. Patented Feb. 23, 1869.



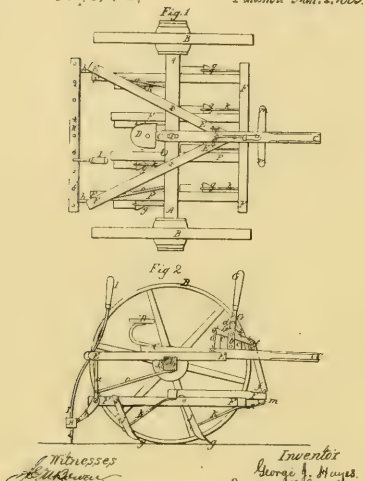
Witnesses
L. R. Wallace
A. Pendleton

Inventor
R. B. Robbins

G. J. Hayes,

Wheel Cultivator.

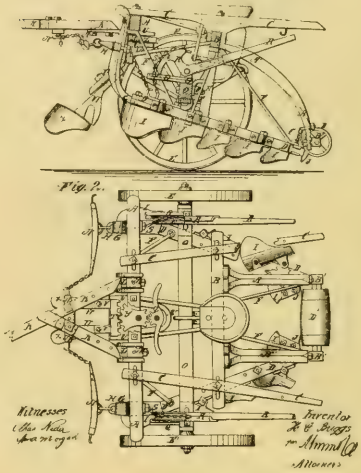
No. 87,492. Patented Mar. 2. 1869.



H. C. Briggs,

Wheel Cultivator.

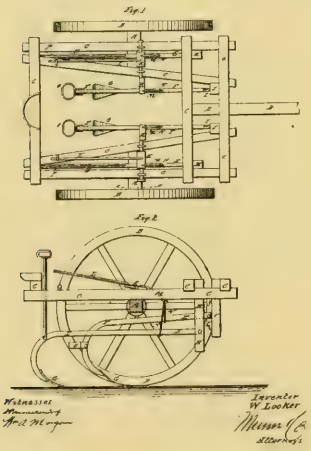
No. 87,627. Patented Mar. 9. 1869.



W. Looker.

Cultivator Plow

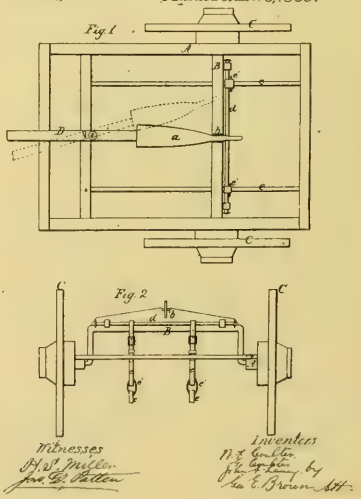
No. 87,690. Patented Mar. 9. 1869.



Coulter, Coulter & Lanery.

Wheel Cultivator.

No. 87,824. Patented Mar. 16, 1869.



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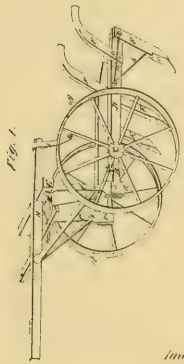
J. C. French.

Cultivator.

No 87,923 Patented Mar 16, 1869



Witnesses
H. A. Sprague
J. Clum.

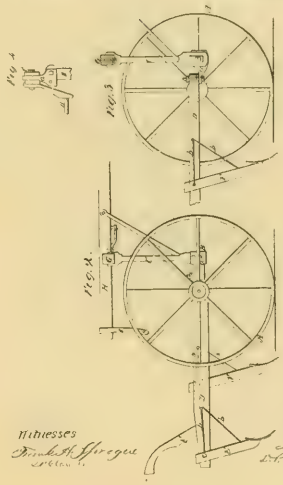
Inventor
J. C. French.
D. P. Hennessy & Co
Atty

Sheet 2 Sheets

J. C. French.

Cultivator.

No 87,923. Patented Mar 16, 1869



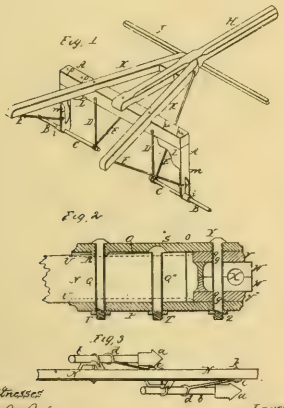
Witnesses
Frank A. Sprague
Jos. Clum.

Inventor
J. C. French
D. P. Hennessy & Co
Atty

J. R. Little.

Cultivator

No 88,311. Patented Mar 30, 1869.



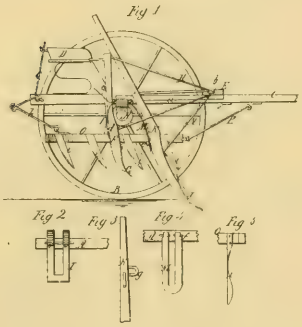
Witnesses
A. B. Richards
J. M. Marlow

Inventor,
J. R. Little

G. W. Bressler

Cultivator

No 88,363. Patented Mar 30, 1869.



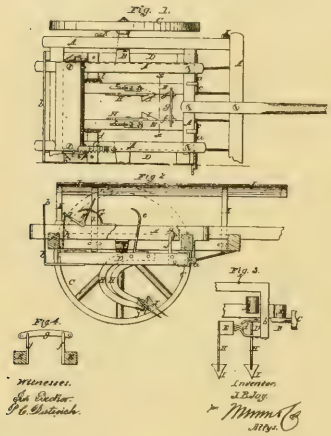
Witnesses;
H. C. Ashkettle
Geo. A. Morgan

Inventor,
G. W. Bressler
per Munn & Co
Attorneys

J. B. Jay.

Cultivator.

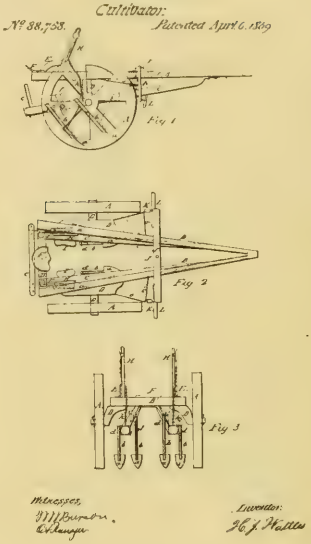
No. 88,638. Patented Apr. 6, 1869.



H. J. Wattles.

Cultivator.

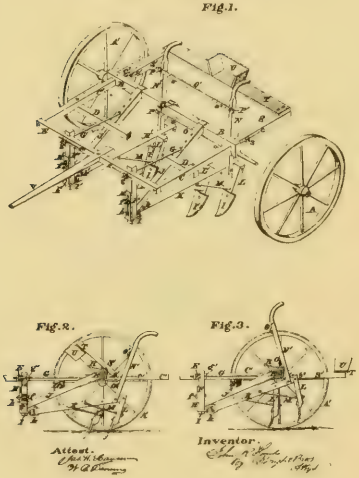
No. 88,738. Patented Apr. 6, 1869.



J. K. Hart,

Cultivator.

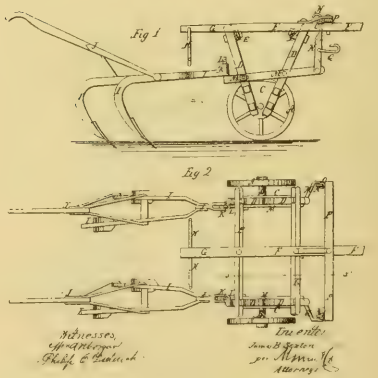
No. 88,868. Patented Apr. 13, 1869.

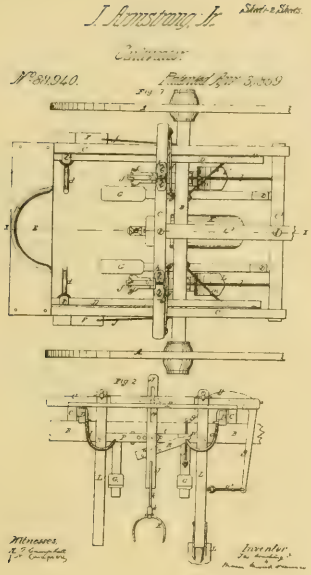


J. B. Sexton.

Cultivator.

No. 88,916. Patented Apr. 13, 1869.




J. Armstrong, Jr.
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Cultivator
No. 81,940.
Patented Apr. 3, 1869
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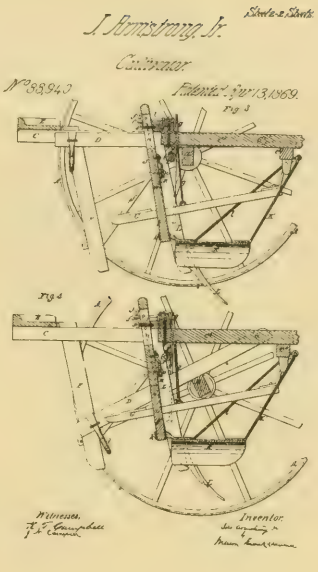
Fig 2
Witnesses
Inventor


J. Armstrong, Jr.
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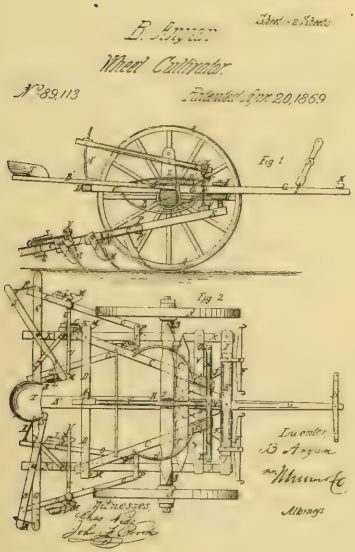
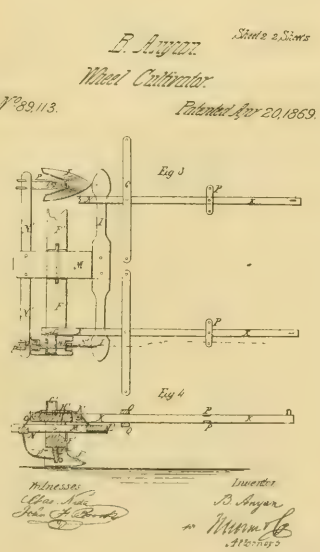
Cultivator
No. 88,943
Patented Apr. 13, 1869.
Fig 3
Fig 4
Witnesses.
Inventor


B. Anyan
Sheet 2 Sheets
Wheel Cultivator.
No. 89,113
Patented Apr. 20, 1869
Fig 1
Fig 2
Inventor
B. Anyan
Witnesses.
Attorneys


B. Anyan
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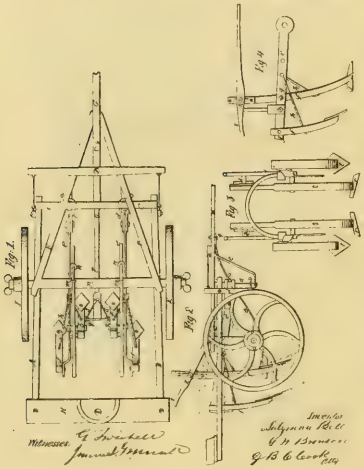
Wheel Cultivator.
No. 89,113.
Patented Apr. 20, 1869.
Fig 3
Fig 4
Witnesses:
Inventor
B. Anyan
Attorneys

Bell & Emmons,

Wheel Cultivator.

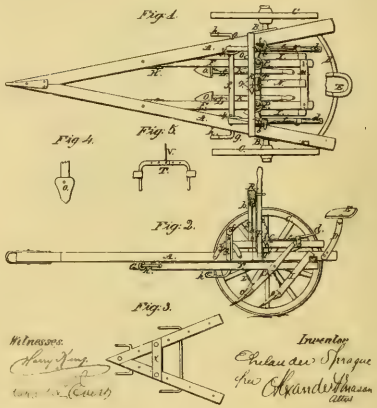
No. 89,729. Patented May 4, 1869.



P. Sprague.

Cultivator.

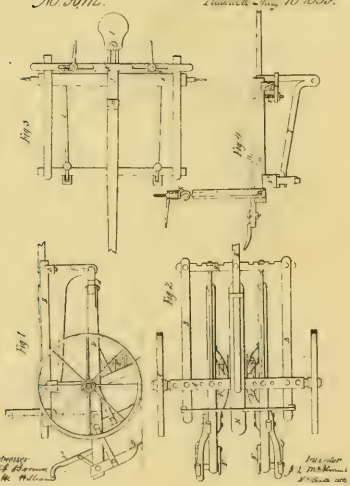
No. 89,801. Patented May 4, 1869.



J. McIlvain,

Wheel Cultivator.

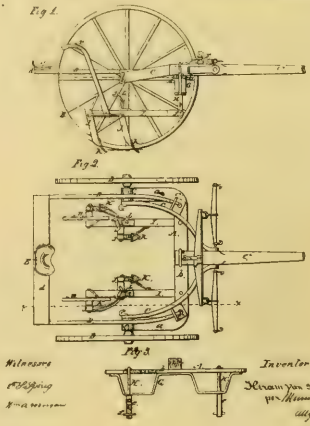
No. 90,112. Patented May 18, 1869.

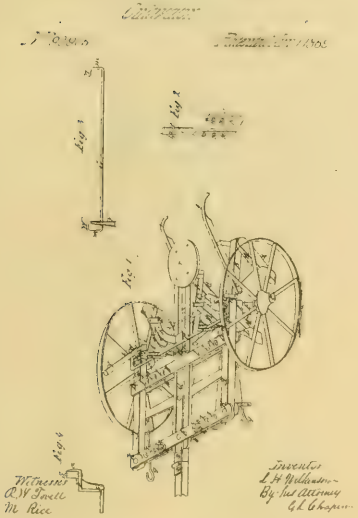


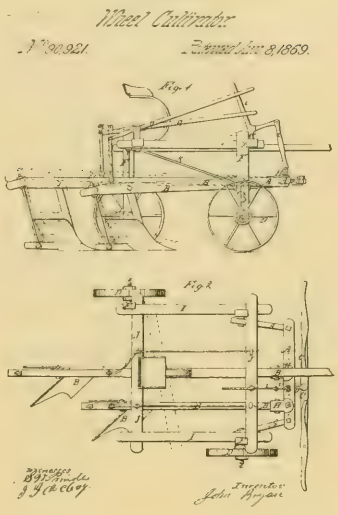
H. Van Meter,

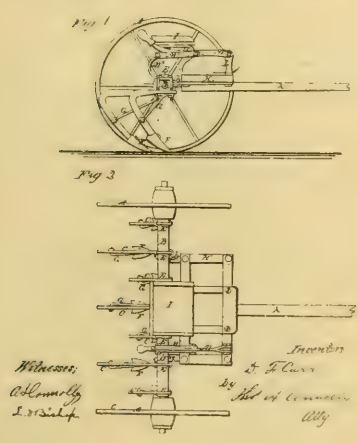
Cultivator.

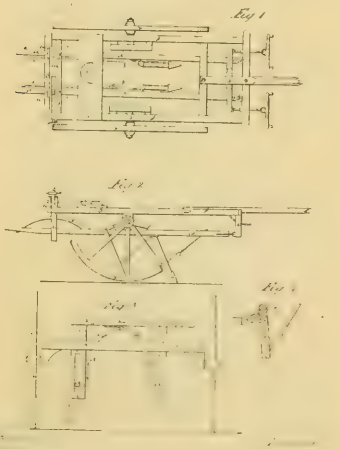
No. 90,208. Patented May 18, 1869.

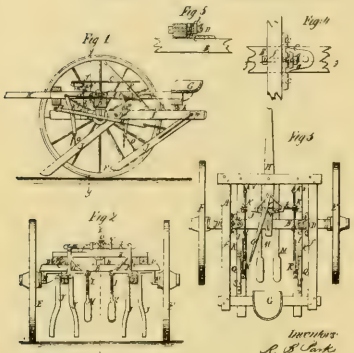


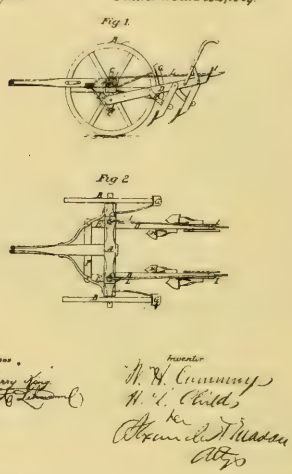

L. H. Willerson
Cultivator
Witnesses
Inventor
L. H. Willerson
By his Attorney
G. L. Chapin

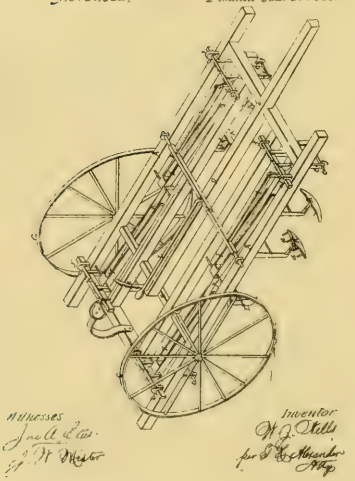

J. Brown.
Wheel Cultivator.
Patented June 8, 1869.
Fig. 1
Fig. 2
Witnesses
Inventor
John Brown

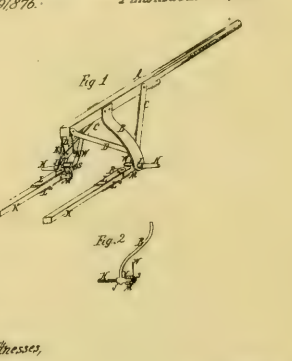

H. F. Carr,
Cultivator.
No. 91081.
Patented June 8, 1869.
Fig. 1
Fig. 3
Witnesses:
Inventor
H. F. Carr
by
Att'y


J. Robinson.
Wheel Cultivator.
Patented Jun. 22, 1869.
Fig. 1
Fig. 2
Fig. 3
Fig. 4

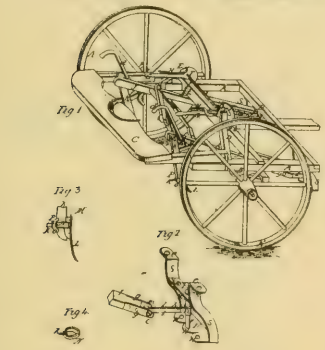

N. B. & J. R. Parks.
Cultivator.
No. 91,661. Patented June 22, 1869.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Witnesses
Inventors
N. B. Parks
J. R. Parks
for Munn & Co.


Cummings & Child's.
Plow.
No. 91,721. Patented Jun. 22, 1869.
Fig. 1.
Fig. 2
Witnesses.
Inventor
W. H. Cummings
W. C. Child
by
Atty.


W. J. Watts.
Cultivator
No. 91,802. Patented June 22, 1869
Witnesses
Inventor
W. J. Watts
for
Atty.


A. Shaw.
Wheel Cultivator.
No. 91,876. Patented Jun. 29, 1869.
Fig. 1
Fig. 2
Witnesses,
Inventor,
Alexander Shaw

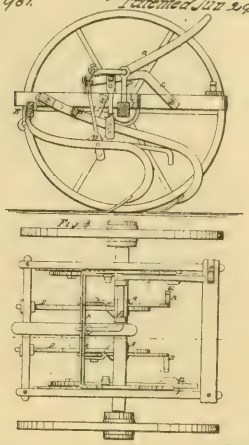
J. A. & J. S. Woodward & T. Mason,
Cultivator.
No. 91,894. Patented June 29, 1869.



Witnesses
J. M. Triplett
G. L. Allyn

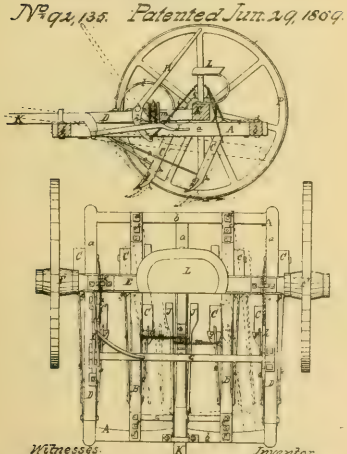
Inventors
J. A. & J. S. Woodward
J. Mason
By their Attorney
G. H. Raymond

W. Snook.
Wheel Cultivator.
No. 91,981. Fig. 1 Patented Jun. 29, 1869.



Witnesses
Inventor
W. Snook
per Wm. Wade
Attys

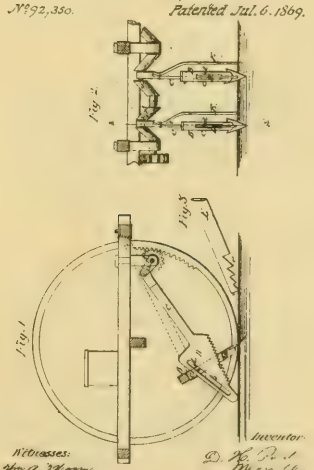
N. Wilson.
Wheel Cultivator.
No. 91,135. Patented Jun. 29, 1869.



Witnesses.
H. F. Blunt
Jas. I. Day

Inventor
Nathaniel Wilson
Per Attorney
Ambrose Spencer

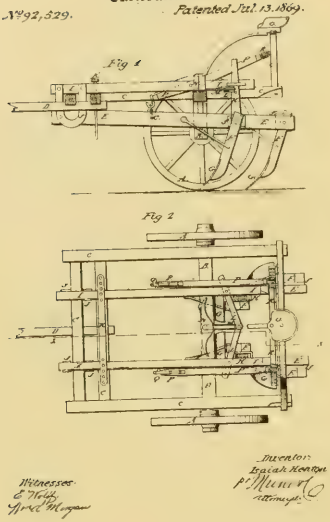
D. H. Paul,
Cultivator,
No. 92,350. Patented Jul. 6, 1869.



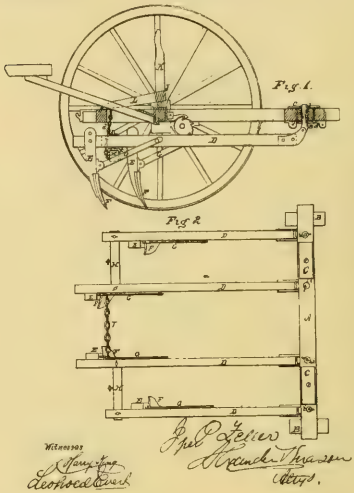
Witnesses:
Wm. A. Morgan
G. L. Estes

Inventor
D. H. Paul
per Munn & Co
Attorneys

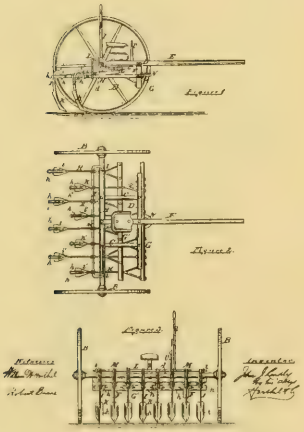
J. Henton.
Cultivator.
No. 92,529. Patented Jul. 13, 1869.



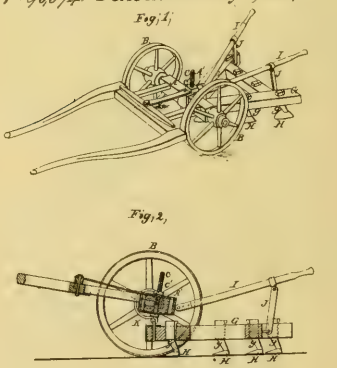
J. P. Zeller.
Cultivator.
No. 92,686 Patented July 13, 1869.



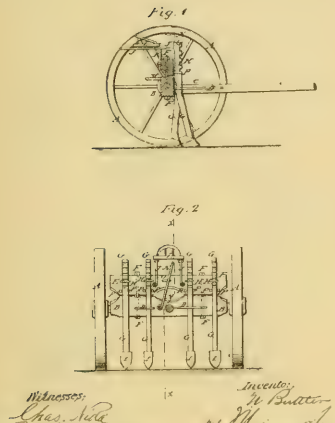
J. J. Lindly,
Wheel Cultivator.
No. 93,318. Patented Aug. 3, 1869.



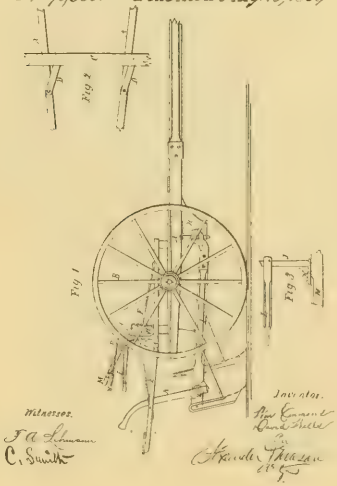
H. Wadsworth.
Wheel Cultivator.
No. 93,374. Patented Aug. 3, 1869.



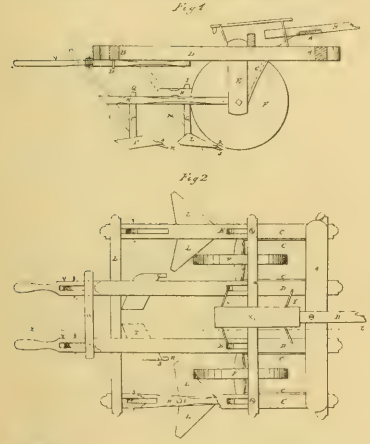
N. Butler,
Cultivator.
No. 93,412. Patented Aug. 10, 1869.



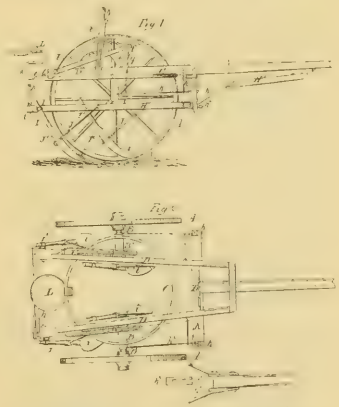
Emmons & Wells.
Wheel Cultivator.
No. 93,005. Patented Aug. 10, 1869.



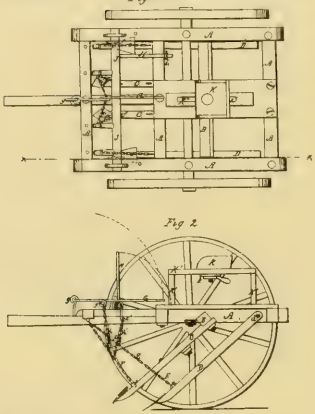
D. D. Franklin.
Wheel Cultivator.
No. 93,011. Patented Aug. 10, 1869.



H. W. Walles,
Wheel Cultivator.
No. 93,651. Patented Aug. 10, 1869.



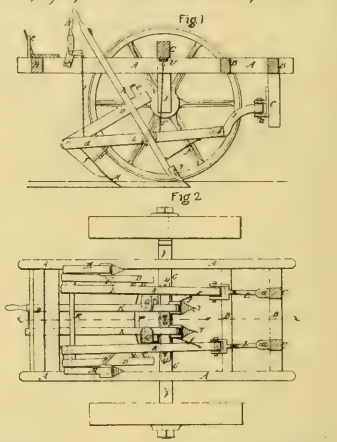
N. McKay
Wheel Cultivator
No. 93,730. Patented Aug. 17, 1869



Witnesses.
N. T. Hudson
Wm. C. Goyer.

Inventor.
Neal McKay

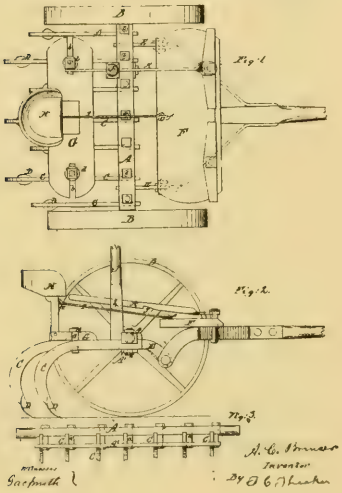
J. J. Rose.
Wheel Cultivator.
No. 93,749. Patented Aug. 17, 1869



Witnesses:
N. G. Hedrick
J. A. Morgan.

Inventor:
J. J. Rose
per Munn & Co
attorneys

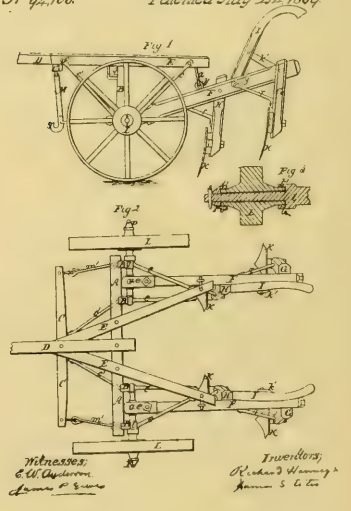
A. C. Brinser,
Wheel Cultivator.
No. 94,067. Patented Aug. 24, 1869.



Witnesses
Gatesmith
A. C. Brinser
Inventor
By O. G. Sheaks

Sheet 1, 2 Sheets.

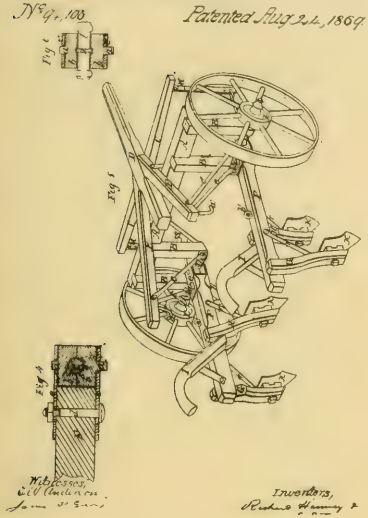
Harvey & Estes.
Wheel Cultivator
No. 94,106. Patented Aug. 24, 1869



Witnesses:
C. W. Anderson
James P. Lewis

Inventors;
Richard Harvey
James S. Estes

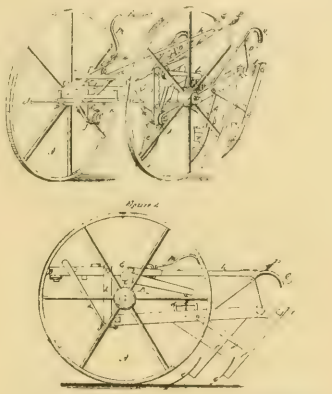
Haney & Estes. Sheets 2 Sheets
Wheel Cultivator.
No. 94,103. Patented Aug. 24, 1869.



Witnesses,
C. W. Chalkley
James H. Evans

Inventors,
Richard Haney &

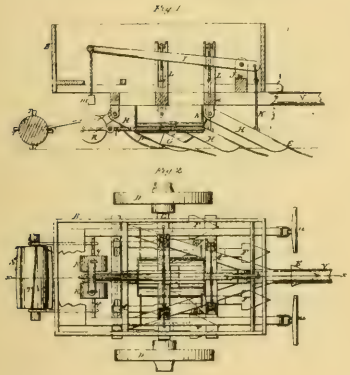
Walker & Platt,
Wheel Cultivator.
No. 94,456. Patented Aug. 31, 1869.



Witnesses
Robt. A. Howe
Mortimer Hyde

Inventors
Elisha Walker
Joseph J. Platt

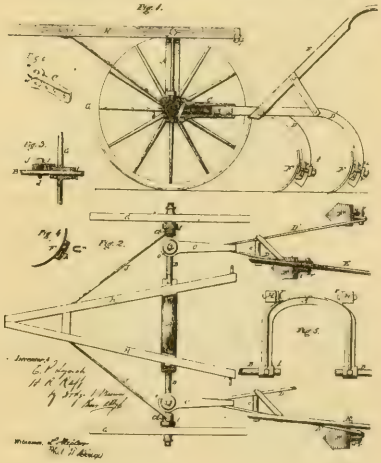
J. M. Baker.
Cultivator.
No. 94,542. Patented Sep. 7, 1869.



Witnesses.
C. Neff
Andrew Logan

Inventor
J. M. Baker.
per Munn & Co.
Attorneys

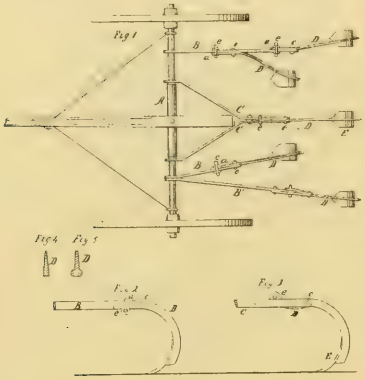
Lyman & Neff.
Wheel Cultivator
No. 94,623. Patented Sept. 7, 1869



Witnesses
C. Neff
Andrew Logan

Inventors
C. F. Lyman
H. R. Neff
per Munn & Co
Attorneys

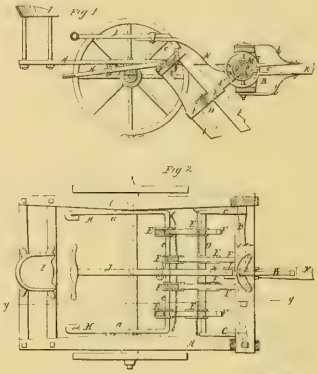
E. F. Lynch
Wheel Cultivator
No. 94,903. Patented Sept. 14, 1869.



Witnesses
L. Halter
Phil. T. Dwight

Inventor
E. F. Lynch
by Dodge & Munn
his Attys

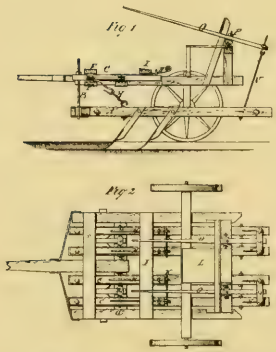
J. H. Robinson
Wheel Cultivator
No. 95,142. Patented Sept. 21, 1869



Witnesses:
Phil. T. Dwight
E. S. Brooks

Inventor,
Jas. H. Robinson
by Philip Wiedersheim
Atty

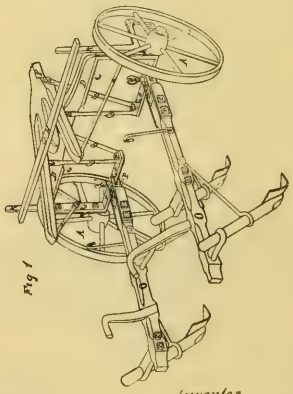
T. J. Hall,
Cultivator.
No. 95,338. Patented Sept. 28, 1869.



Witnesses:
Wm. F. Clark
Edwd. Foster

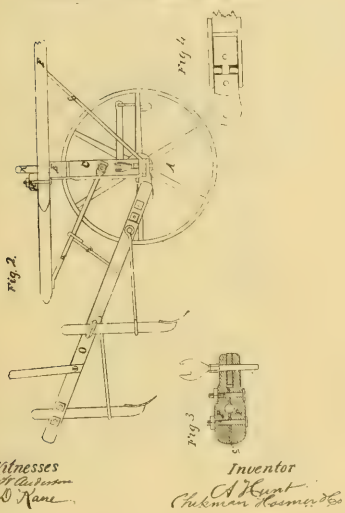
Inventor:
T. J. Hall
per Munn & Co

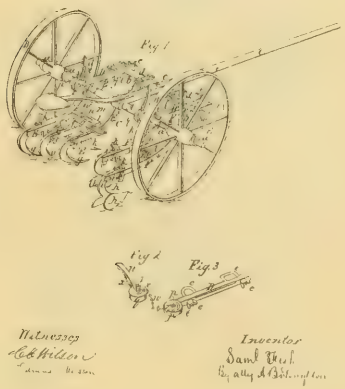
A. Hunt,
2 Sheets Sheet 1.
Cultivator.
No. 95,352. Patented Sept. 28, 1869.

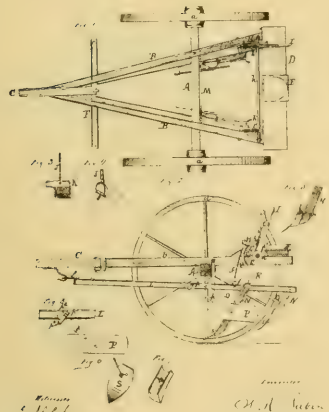


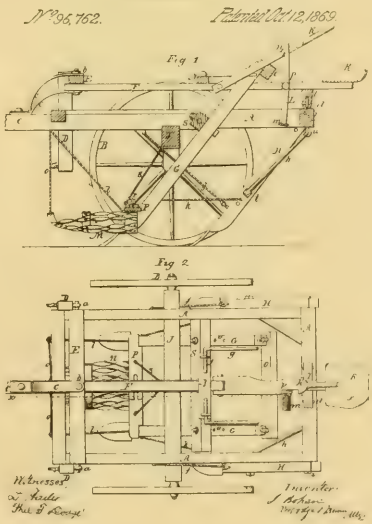
Witnesses
E. H. Ashmore
W. W. Kane

Inventor
A. Hunt
Chipman, Hosmer & Co
Attys


No. 95,551.
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor
Chickman Rosmer & Co


S. Fisher.
Wheel Cultivator.
No. 95,453.
Patented Oct. 5. 1869
Fig 1
Fig 2
Fig 3
Witnesses
Inventor

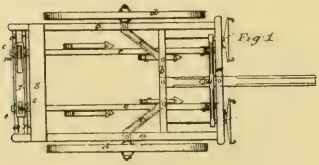

No. 95,500
Witnesses
Inventor

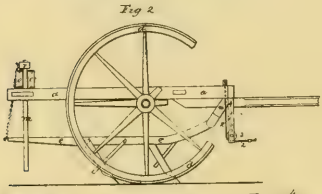

No. 95,762.
Patented Oct 12, 1869
Fig 1
Fig 2
Witnesses
Inventor

O. L. Gaylord.

Wheel Cultivator.

No. 95,790. Patented Oct. 12, 1869.





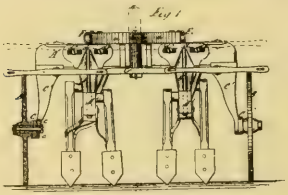
Witnesses,

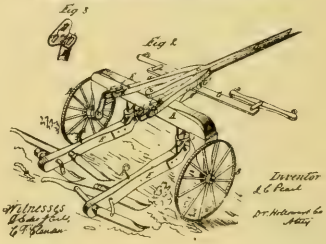
Inventor

J. C. Pearl.

Cultivator.

No. 96,831. Patented Oct. 12, 1869.





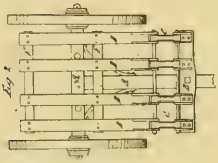
Witnesses

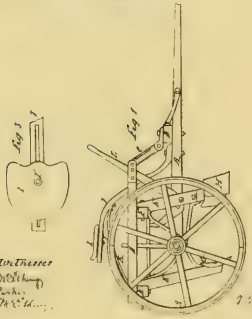
Inventor

D. W. Harris.

Cultivator.

No. 96,167. Patented Oct. 26, 1869.





Witnesses

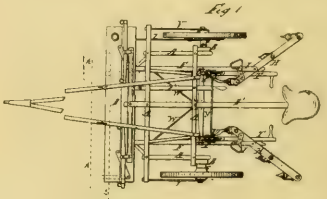
Inventor

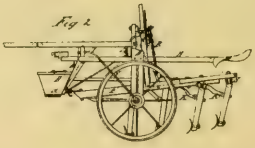
S. C. Schofield.

Sheet 1 Sheet.

Cultivator and Seeder.

No. 96,271. Patented Oct. 26, 1869.





Witnesses

Inventor

Sheet 2-2 Sheets.

S. C. Schofield.

Cultivator and Seeder.

No. 95,271. Patented Oct. 26, 1869.

Fig. 3

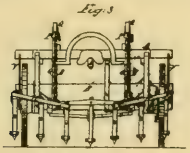


Fig. 4

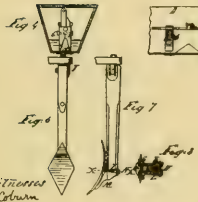


Fig. 5

Fig. 6

Fig. 7

Fig. 8

Witnesses
J. Coburn
J. L. Coburn

Inventor
Silas C. Schofield

2. Sheets, Sheet 1.

J. A. Smith,

Cultivator.

No. 96,579. Patented Oct. 26, 1869.

Fig. 1

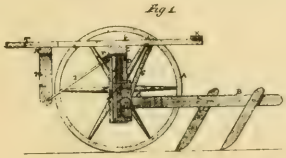
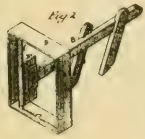


Fig. 2



Witnesses
John A. Ellis
Henry A. Mills

Inventor
J. A. Smith
By
J. H. Alexander
Atty.

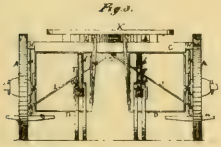
2. Sheets, Sheet 2.

J. A. Smith,

Cultivator.

No. 96,579. Patented Oct. 26, 1869.

Fig. 3.



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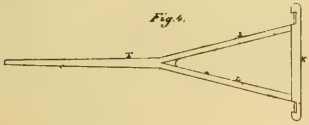


Witnesses
John Ellis
J. [illegible]

Inventor
J. A. Smith
By
J. H. [illegible]
Atty.

Walker & Platt,

Wheel Cultivator.

No. 100,890. Patented Oct. 26, 1869.

Fig. 1

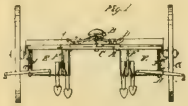


Fig. 2.

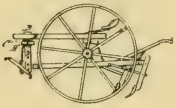


Fig. 3

Inventors
Elisha W. Walker
Josiah J. Platt

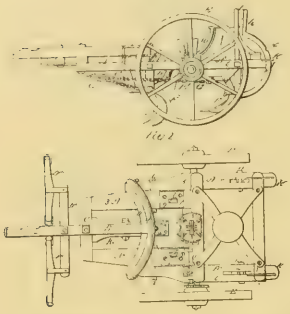
Witnesses
W. Schlegmann
S. Lorappe

D. E. Holt.

Cultivator.

No. 96,322. Patented Nov. 2, 1869.

Fig. 1



Witnesses
Rufus R. Rhodes
Ch. A. Jackson

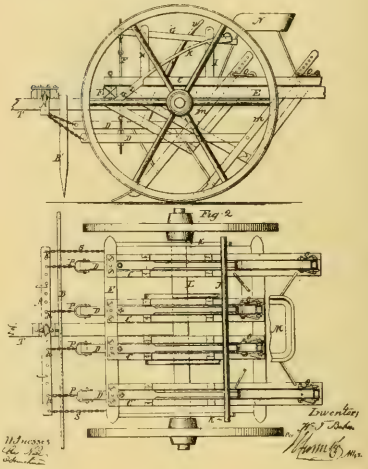
Inventor
D. E. Holt

W. T. Baker.

Cultivator.

No. 96,379. Patented Nov. 2, 1869.

Fig. 1



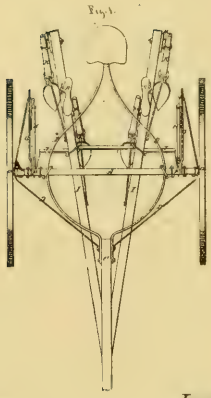
Witnesses
Chas. A. Wright
Chas. E. Foster

Inventor
W. T. Baker
Wm. H. Hall & Co. Atty.

Ebam & Melden. 2 Sheets, Sheet 1.

Cultivator

No. 96,382. Patented Nov. 2, 1869.



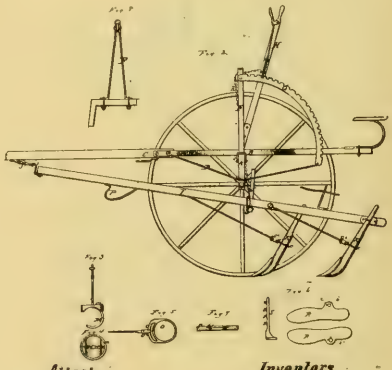
Attest.
Chas. E. Brown
Geo. Thomas

Inventors.
E. Chas. Ebam
E. N. Melden
by Hor. Bradley
Atty.

Ebam & Melden. 2 Sheets, Sheet 2.

Cultivator

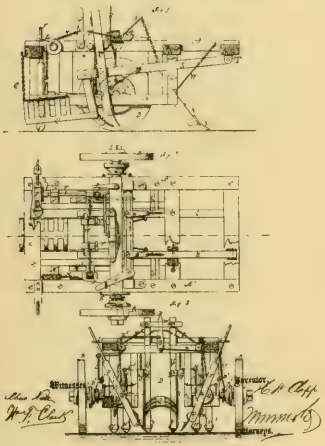
No. 96,382. Patented Nov. 2, 1869.



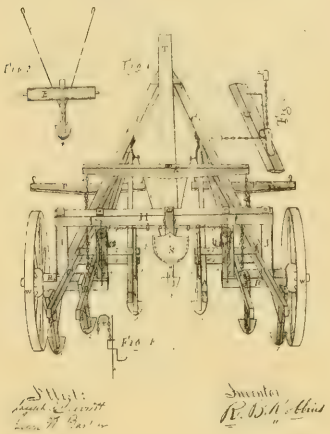
Attest.
Chas. E. Brown
Geo. Thomas

Inventors.
E. Chas. Ebam
E. N. Melden
by Hor. Bradley
Atty.

H. W. Clapp,
Wheel Cultivator.
No. 96519. Patented Nov. 9. 1869.

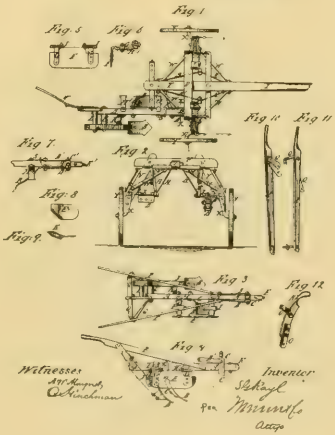


No. 96733. Patented Nov. 9. 1869.

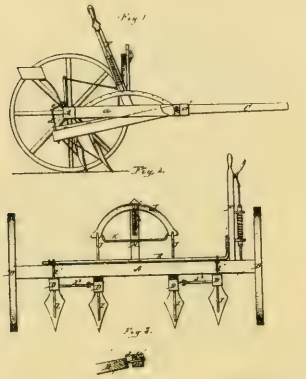


A. J. Grush.
Cultivator.
No. 96801. Patented Nov. 16. 1869.

S. S. Rigl.
Cultivator.
No. 96838. Patented Nov. 16. 1869.



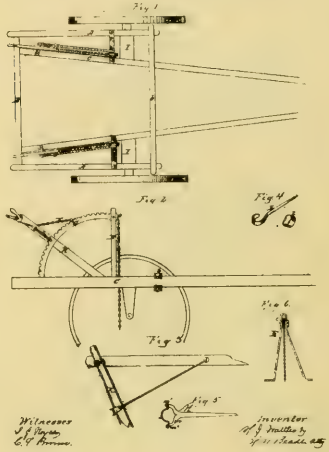
J. Ferguson,
Cultivator.
No. 94,377. Patented Nov. 30. 1869.



Witnesses.
Charles H. Perrin
Fred Phoenix

Inventor
James Ferguson by
his Attorneys

K. J. Matthews,
Cultivator.
No. 97,513. Patented Dec. 7. 1869.

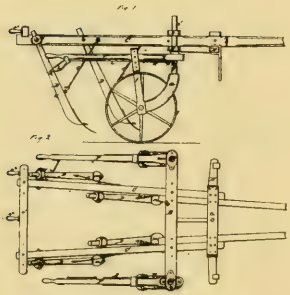


Witnesses
J. J. Dwyer
C. H. Perrin.

Inventor
K. J. Matthews by
his Attorneys

J. B. Skinner,
Cultivator.
No. 98,118. Patented Dec. 21. 1869.

2 Sheets Sheet 1

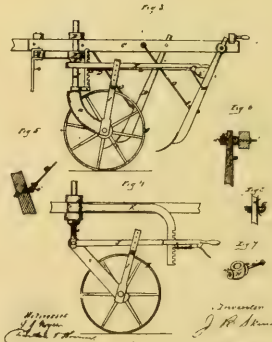


Witnesses
J. J. Dwyer
Charles H. Perrin

Inventor
J. B. Skinner
by Hoyt & Bradley
Attorneys

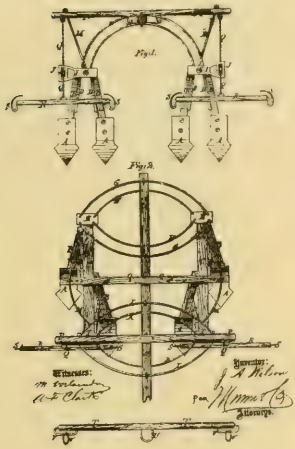
J. B. Skinner,
Cultivator.
No. 98,118. Patented Dec. 21. 1869.

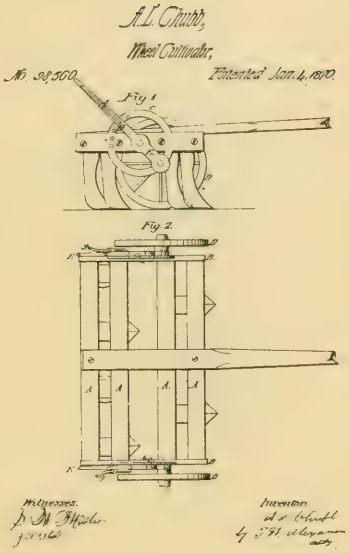
2 Sheets Sheet 2

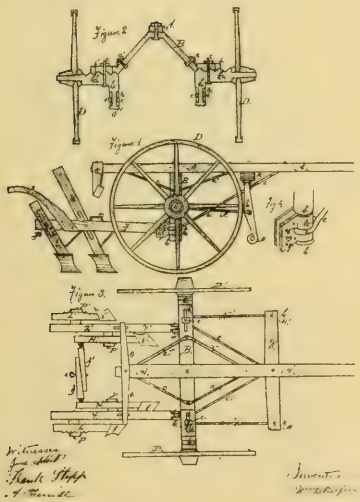


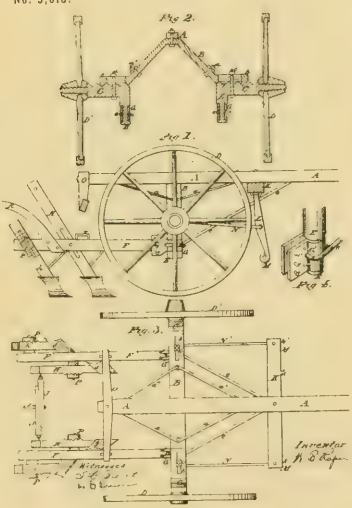
Witnesses
J. J. Dwyer
Charles H. Perrin

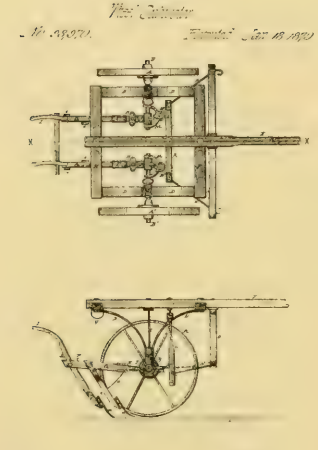
Inventor
J. B. Skinner
by Hoyt & Bradley
Attorneys

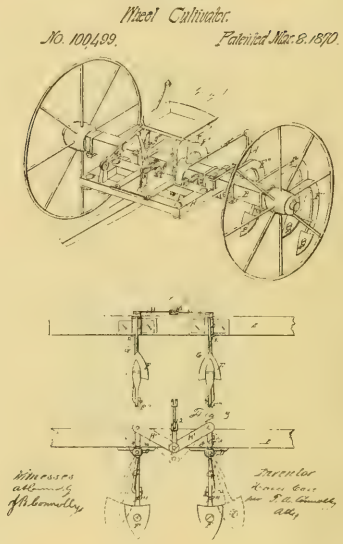

J. A. Wilson,
Cultivator.
No. 93,326.
Patented Jan. 28, 1869.
Fig. 1.
Fig. 2.
Witnesses:
Inventor:
Attorneys.

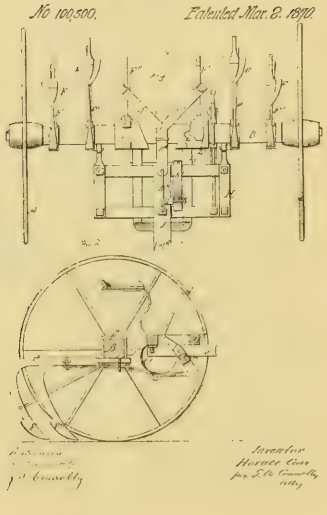

A. L. Church,
Wheel Cultivator,
No. 93,560.
Patented Jan. 4, 1870.
Fig. 1
Fig. 2.
Witnesses.
Inventor

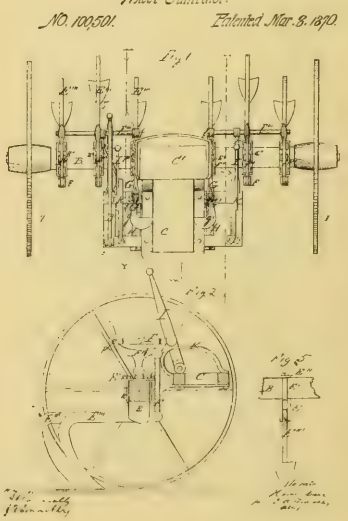

W. B. Raper,
Corn Flower.
No. 93,708.
Patented Jan. 11, 1870.
Figure 2
Figure 1
Figure 3.
Witnesses
Inventor


W. B. RAPER
Improvement in Cultivators.
No. 5,018.
Reissued July 30, 1872.
Fig. 2.
Fig. 1.
Fig. 6.
Fig. 3.
Witnesses
Inventor


Wheel Cultivator
No. 99,070.
Witnesses
Inventor.


H. Carr,
Wheel Cultivator.
No. 100,499.
Patented Mar. 8. 1870.
Witnesses
Inventor

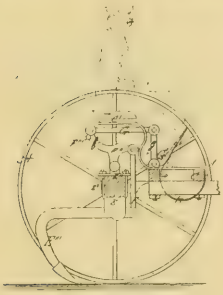

H. Carr,
Wheel Cultivator.
No. 100,500.
Patented Mar. 8. 1870.
Witnesses
Inventor

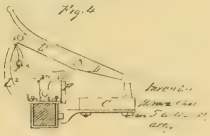

2 Sheets Sheet 1
H. Carr,
Wheel Cultivator.
No. 100,501.
Patented Mar. 8. 1870.
Fig 1
Fig 2
Witnesses

H. Carr, 2 Sheets Sheet 2

Wheel Cultivator.

No. 100,501. Patented Mar. 8, 1870





Witnesses

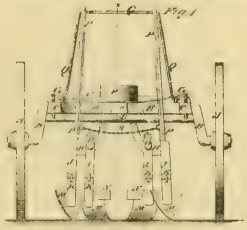
J. B. Donnelly

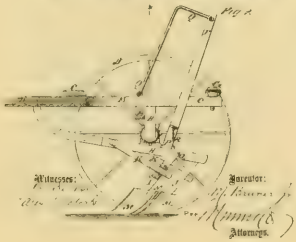
Inventor

N. Frazier Jr.,

Cultivator.

No. 100,000 Patented Mar. 15, 1870





Witnesses:

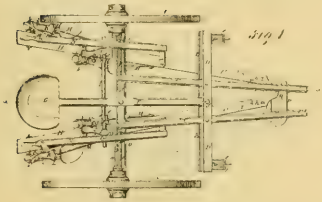
Inventor:

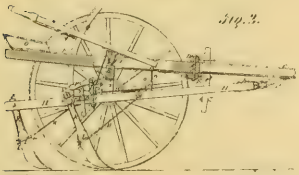
Attorneys.

J. B. Skinner,

Wheel Cultivator.

No. 100,812. Patented Mar. 15, 1870.



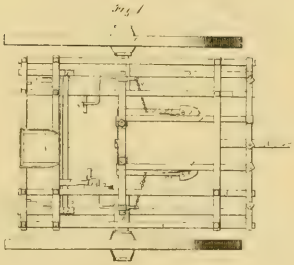


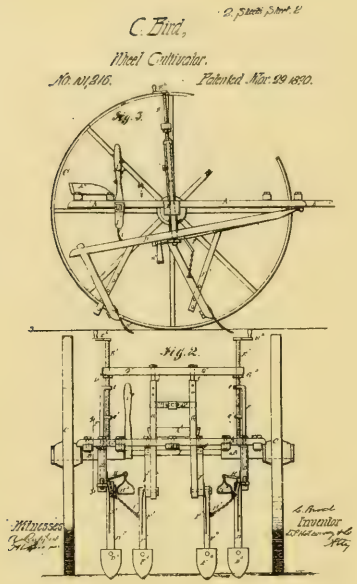
Witnesses

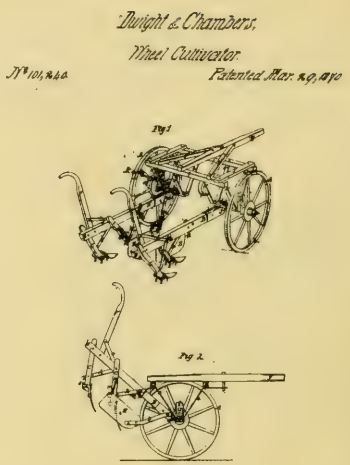
C. Ellis, 2 Sheets Sheet 1.

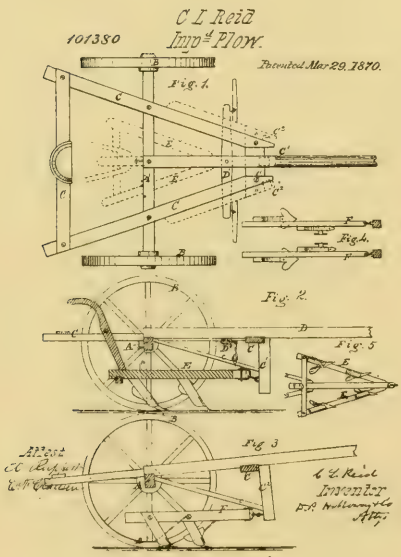
Wheel Cultivator.

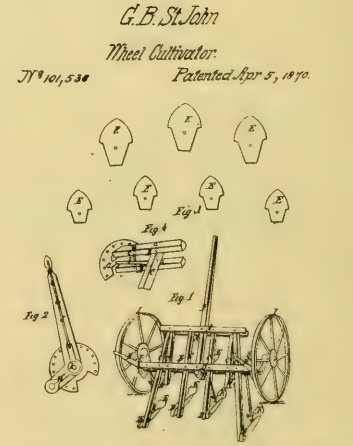
No. 101,216. Patented Mar. 29, 1870




C. Bird,
Wheel Cultivator.
No. 101,816.
Patented Mar. 29 1870.
Fig. 3.
Fig. 2.
Witnesses
Inventor


Dwight & Chambers.
Wheel Cultivator
No 101,820.
Patented Apr. 5, 1870
Fig 1
Fig 2
Witnesses
Inventors

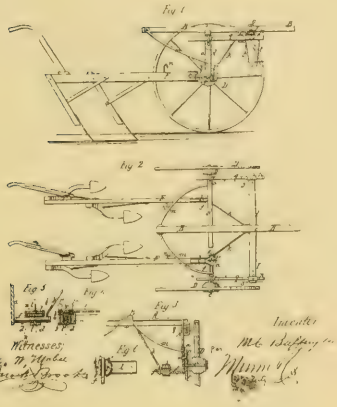

C. L. Reid
Imp^d Plow.
101380
Patented Mar 29, 1870.
Fig. 1.
Fig. 4.
Fig. 2.
Fig. 5
Fig. 3
Witnesses
Inventor


G. B. St. John
Wheel Cultivator.
No 101,538
Patented Apr 5, 1870.
Fig 3
Fig 4
Fig 2
Fig 1
Witnesses,
Inventor,

M. C. Buffington

Wheel Cultivator

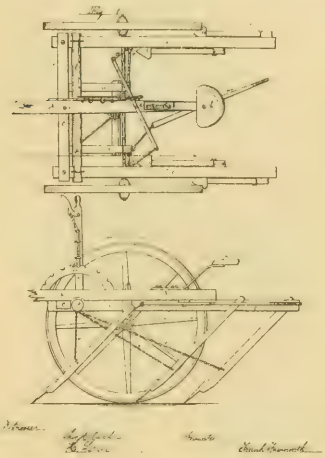
No. 101,925. Patented Apr. 12, 1870



F. Farnsworth,

Wheel Cultivator.

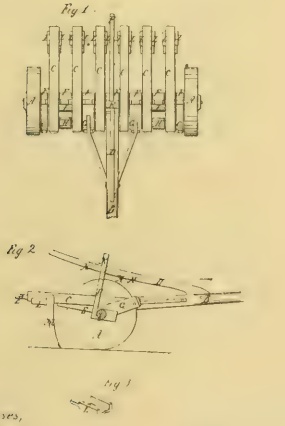
No. 101,920. Patented Apr. 12, 1870.



C. Alvord

Wheel Cultivator

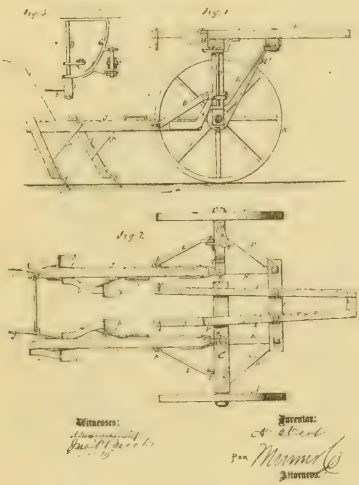
No. 102,801. Patented Apr. 26, 1870



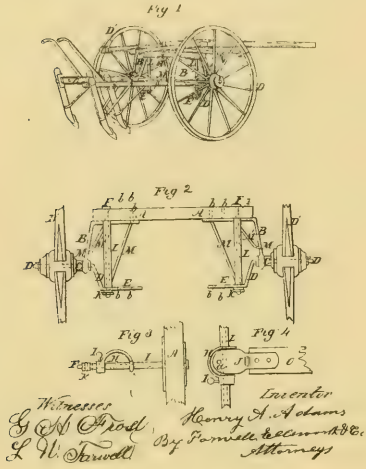
N. Wertz,

Wheel Cultivator.

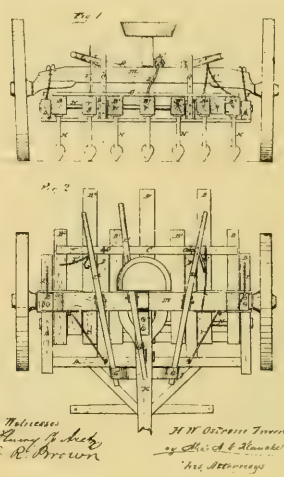
No. 102,631. Patented May 3, 1870.



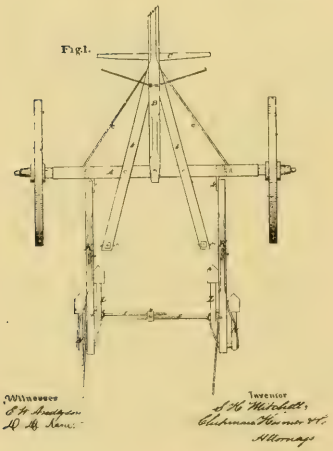
H. A. Adams.
Cultivator.
No. 103,537. Patented May 31, 1870.



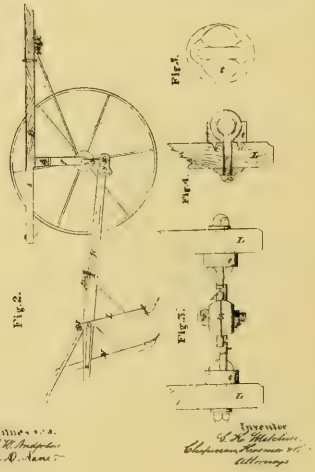
H. W. Ostrom,
Wheel Cultivator.
No. 103,918. Patented June 7, 1870.



S. H. Mitchell, 3 Sheets, Sheet 1
Wheel Cultivator.
No. 104,534. Patented June 14, 1870



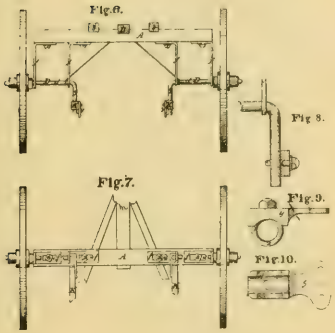
S. H. Mitchell, 3 Sheets, Sheet 2.
Wheel Cultivator.
No. 104,534. Patented June 14, 1870.



S. H. Mitchell, 3 Sheets, Sheet 3

Wheel Cultivator.

No. 102,531 Patented June 14, 1870



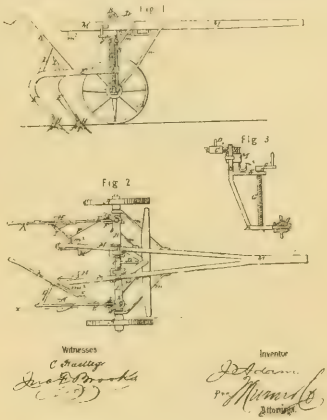
Witnesses.
E. W. Stockton
D. A. Kane

Inventor.
S. H. Mitchell
Eliphaz Horner & Co.
Attorneys.

J. Adams.

Cultivator.

No. 104,399 Patented Jun. 21, 1870



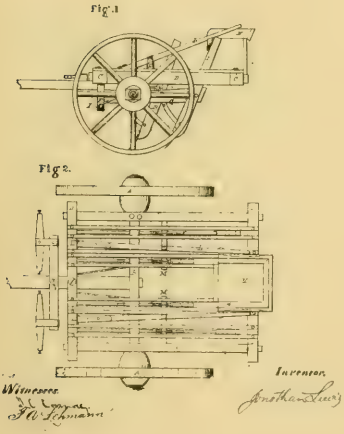
Witnesses
C. Hartley
Geo. P. Brooks

Inventor
J. Adams
per Munn & Co.
Attorneys

J. Lewis, 2 Sheets, Sheet 1.

Wheel Cultivator.

No. 105,285. Patented July 12, 1870



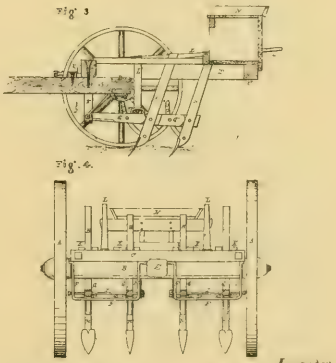
Witnesses
J. L. Cooper
F. W. Schumann

Inventor.
Jonathan Lewis

J. Lewis, 2 Sheets, Sheet 2.

Wheel Cultivator.

No. 105,285. Patented July 12, 1870



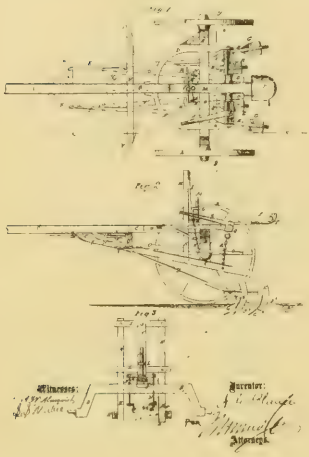
Witnesses.
J. L. Cooper
F. W. Schumann

Inventor.
Jonathan Lewis

A. G. Blasser,

Wheel Cultivator.

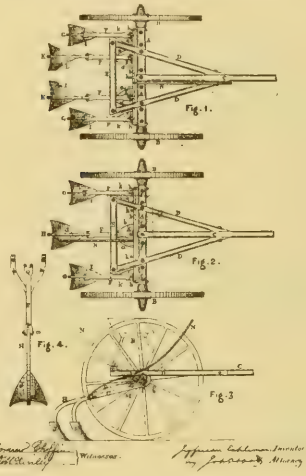
No. 105,630. Patented July 26, 1870.



J. Eshleman,

Wheel Cultivator.

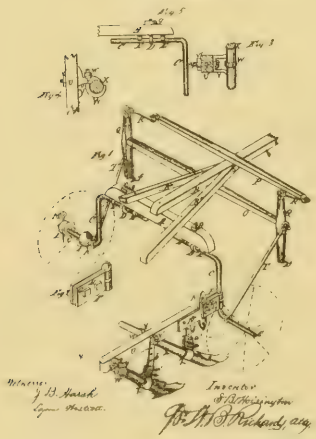
No. 106,039. Patented Aug. 2, 1870.



S. B. Hoisington.

Wheel Cultivator.

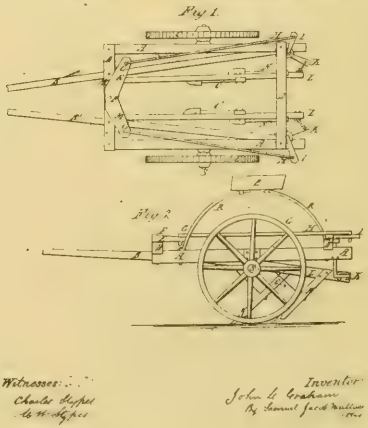
No. 106,161 Patented Aug. 9, 1870.



J. L. Graham.

Wheel Cultivator.

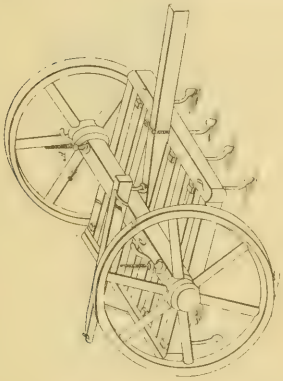
No. 106,354. Patented Aug. 16, 1870.



E. D. Hatch.

Wheel Cultivator.

No. 106,579. Patented Aug. 23, 1870.



Witnesses:
Leon Edwards
Chas. F. Wolter

Inventor
Edwin D. Hatch

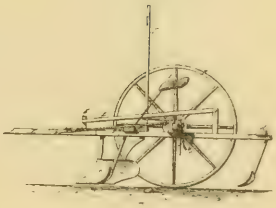
J. Root,

3 Sheets, Sheet 1.

Wheel Cultivator.

No. 106,728. Patented Aug. 23, 1870.

Fig. 1



Witnesses:
Edward Wilkins
Geo. J. Brown

John Root

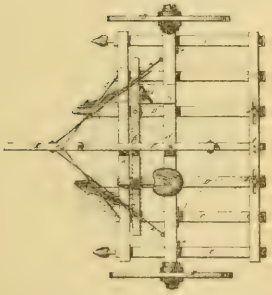
J. Root.

3 Sheets, Sheet 2.

Wheel Cultivator.

No. 106,728. Patented Aug. 23, 1870.

Fig. 2



Witnesses:
Edward Wilkins
Geo. J. Brown

John Root

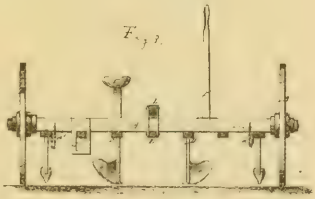
J. Root.

3 Sheets, Sheet 3.

Wheel Cultivator.

No. 106,728. Patented Aug. 23, 1870.

Fig. 3.



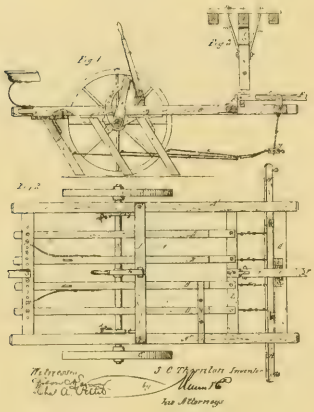
Witnesses:
Edward Wilkins
Geo. J. Brown

John Root

S. C. Thornton.

Wheel Cultivator.

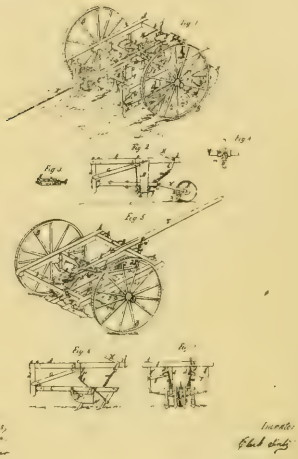
No. 108,918. Patented Aug. 23, 1870.



C. Sunz.

Wheel Cultivator.

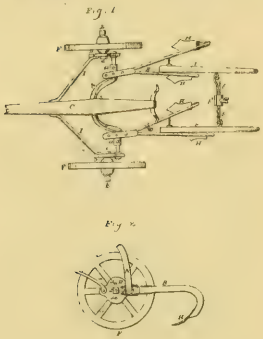
No. 107,110. Patented Sept. 6, 1870.



W. Gilman,

Cultivator.

No. 109,357. Patented Sep. 13, 1870.



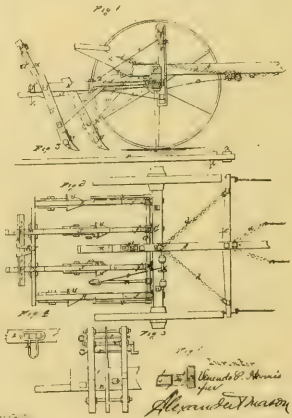
Witnesses,
J. W. Coffin

W. Gilman by Attorney
Ch. Sidney Hutchinson
Washington D.C.

Y. P. Harris,

Wheel Cultivator.

No. 106,660. Patented Oct. 11, 1870.



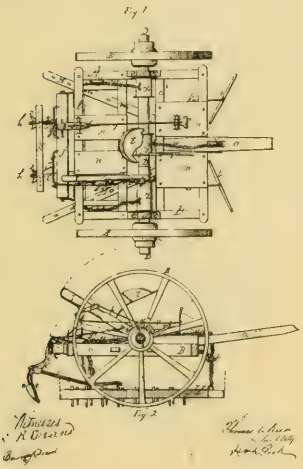
Witnesses,
G. J. Ewert
J. W. Hutchins

Inventor
Alexander Dickson
Atty

T. M. Reed.

Wheel Cultivator.

No. 108302. Patented Oct. 18. 1870.

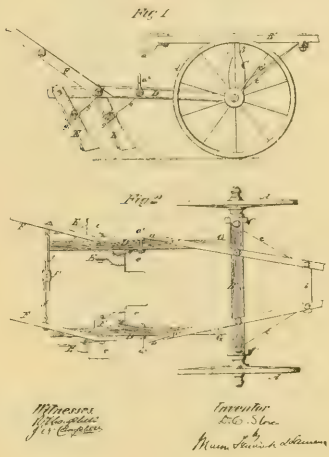


2 Sheets. Sheet 1

D. C. Stover.

Cultivator.

No. 108315. Patented. Nov. 1. 1870.

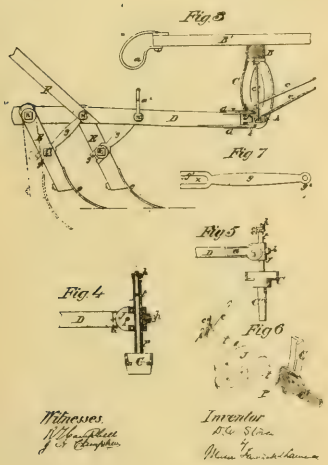


2 Sheets. Sheet 2.

D. C. Stover,

Cultivator.

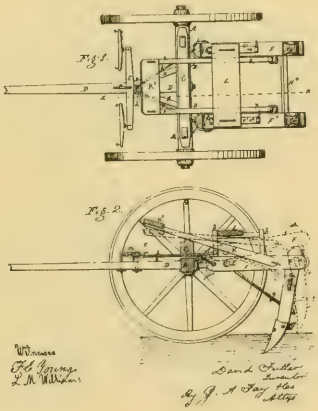
No. 108315. Patented. Nov. 1. 1870.



D. Fuller,

Wheel Cultivator.

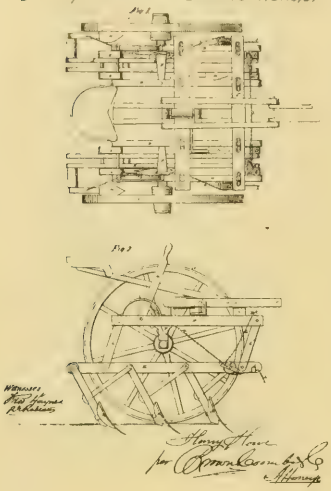
No. 108996. Patented Nov. 8. 1870.



H. Howe,

Wheel Cultivator.

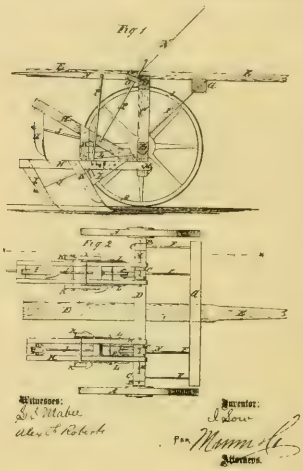
No. 109,129. Patented Nov. 8. 1870.



J. Low,

Cultivator

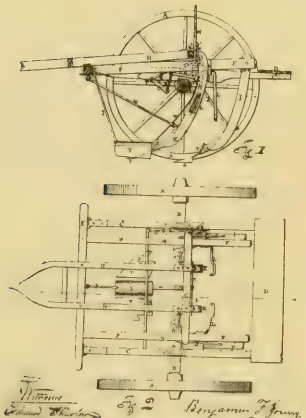
No. 109,229. Patented Nov. 15. 1870.



B. F. Young,

Wheel Cultivator.

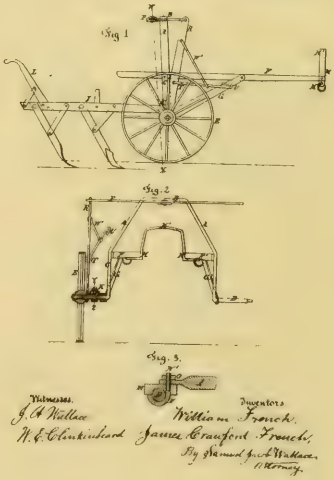
No. 109,863. Patented Nov. 15. 1870.

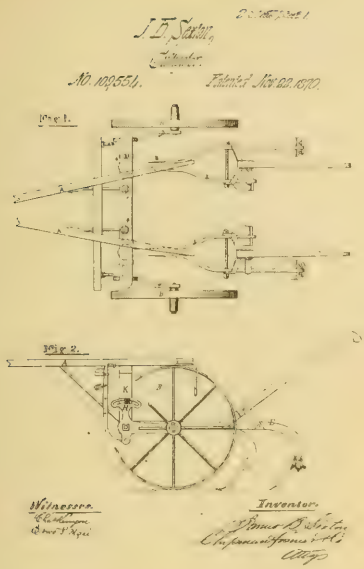


W. J. C. French,

Corn Plow.

No. 109,103. Patented Nov. 22. 1870.




J. F. Stratton,
Cultivator.
No. 109,556. Patented Nov. 29, 1870.
Fig. 1.
Fig. 2.
Witnesses.
Inventor.

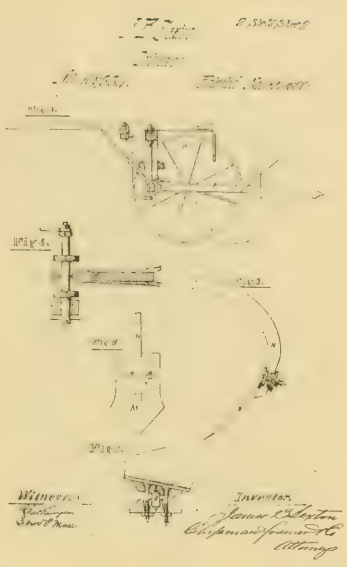
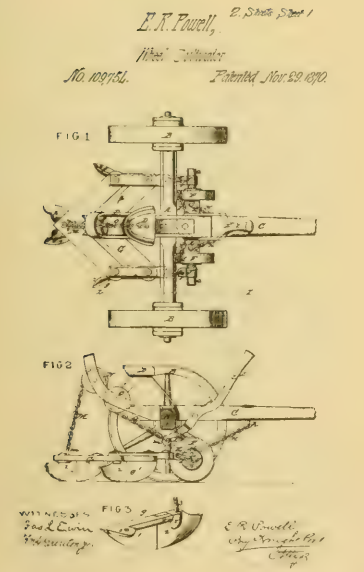
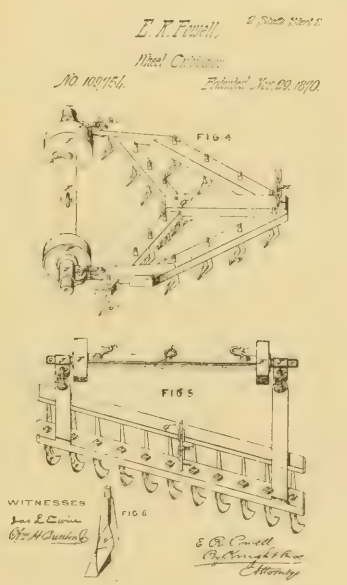
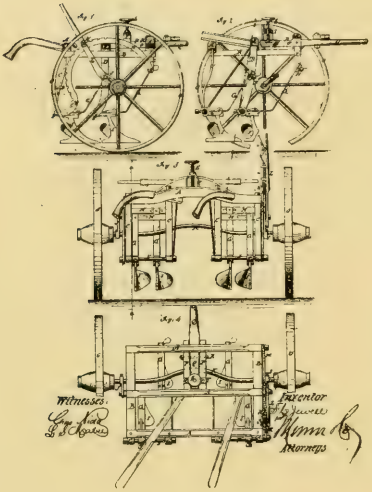


Fig. 1.
Fig. 4.
Fig. 3.
Fig. 2.
Witnesses.
Inventor.

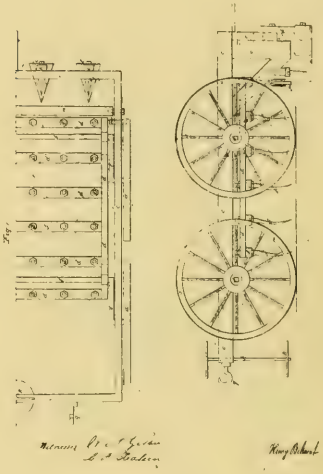

E. R. Powell,
Wheel Cultivator.
No. 109,756. Patented Nov. 29, 1870.
FIG 1
FIG 2
FIG 3
Witnesses.
Attorneys.


E. R. Powell,
Wheel Cultivator.
No. 109,756. Patented Nov. 29, 1870.
FIG 4
FIG 5
FIG 6
WITNESSES
Attorneys.

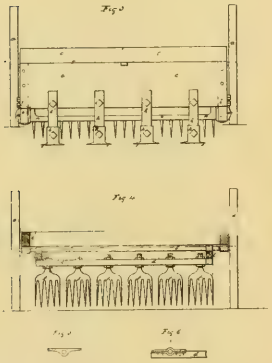
J. S. Israll,
Cultivator.
No. 110,046. Patented Dec. 13, 1870.



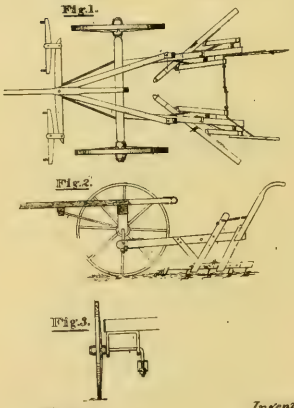
K. Belmont,
Wheel Cultivator.
No. 110,109. Patented Dec. 13, 1870.



K. Belmont,
Wheel Cultivator.
No. 110,109. Patented Dec. 13, 1870.

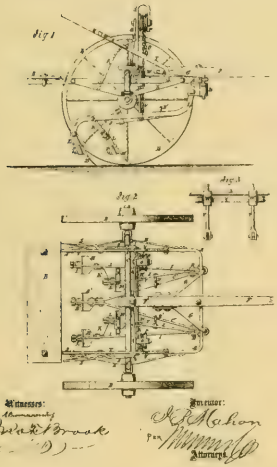


J. M. Hopper,
Harrow.
No. 110,133. Patented Dec. 13, 1870.

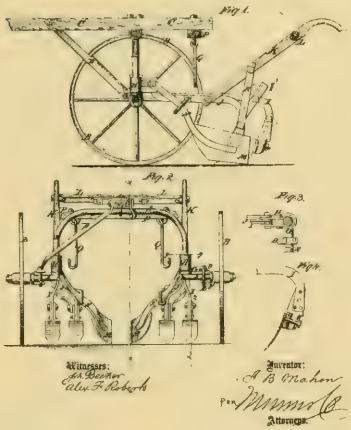


Witnesses.
Inventor.
Attorneys.

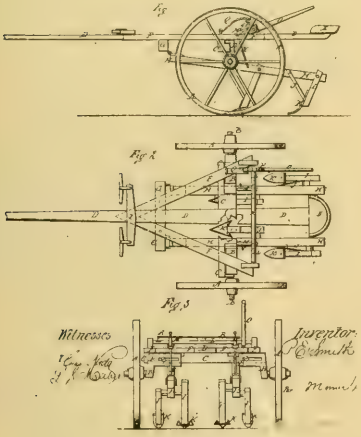
L. E. Mahon,
Cultivator.
No. 110,956. Patented Dec. 20, 1870



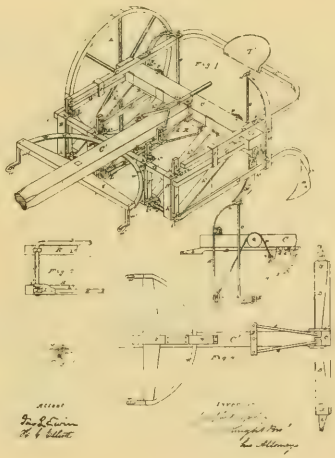
L. B. Mahon,
Wheel Cultivator.
No. 110,957. Patented Dec. 20, 1870

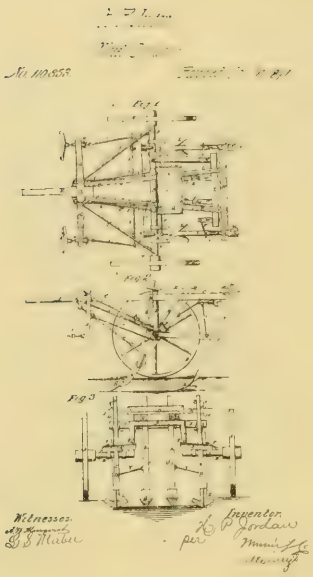


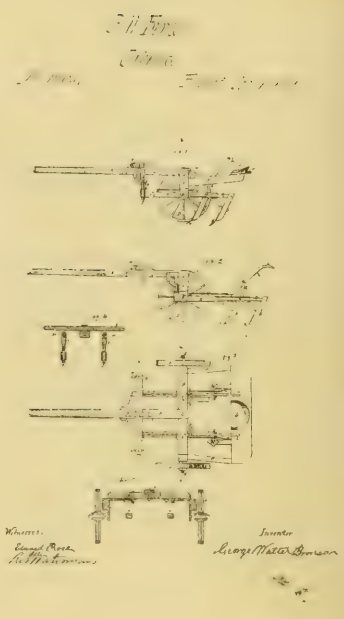
F. E. Smith,
Wheel Cultivator.
No. 110,302. Patented Dec. 20, 1870.

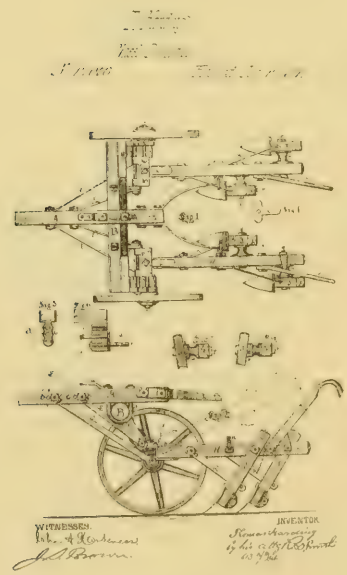


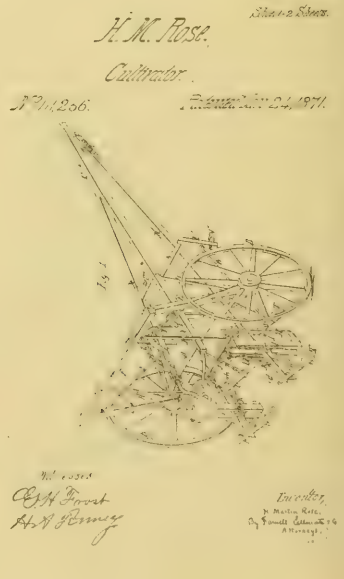
J. H. Carlow,
Wheel Cultivator.
No. 110,818. Patented Dec. 27, 1870.







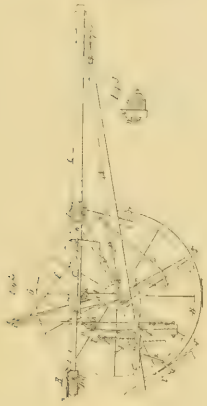



H. M. Rose.
Cultivator.
No. 116,206.

H. M. Rose.

Cultivator.

No. 111,256. Patented Jan 24, 1871.



Witnesses
Chas. H. Smith
H. H. Bonney

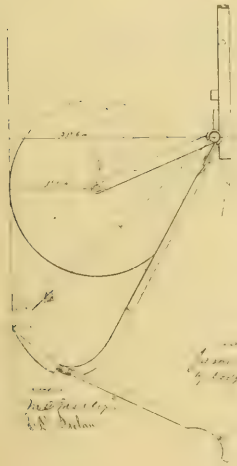
Inventor
H. Morris Rose
by Munn & Co.
Attorneys

Inventor.
Harris Lane.
by Dodge & Munn
Attys.

Witnesses:
Phil. S. Dodge,
Henry Mellinger

J. Gass,

No. 111,372. Patented Jan. 31, 1871.



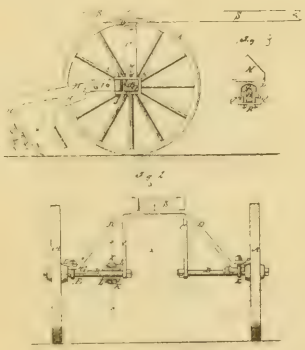
Witnesses
Chas. H. Smith
H. H. Bonney

Inventor
J. Gass
by Munn & Co.
Attys.

M. Sattler,

Wheel Cultivator.

No. 111,781. Patented Feb. 14, 1871



Witnesses
Chas. H. Smith
W. C. Dodge

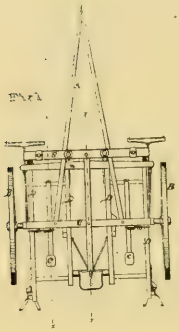
Inventor
M. Sattler
Munn & Co.
Attorneys.

2 Sheets, Sheet 1.

F. D. Robbins,

Wheel Cultivator.

No. 112,496. Patented Mar. 7, 1871.



Witnesses.
C. H. Pierce
Wm. Johnson

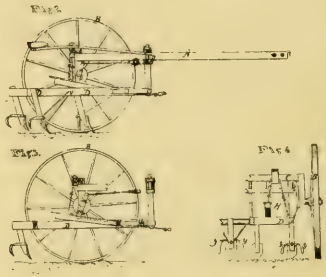
Inventor.
R. D. Robbins
Chapman Homer & Co.
Attys.

2 Sheets, Sheet 2.

F. D. Robbins.

Wheel Cultivator.

No 112,496. Patented Mar. 7, 1871.



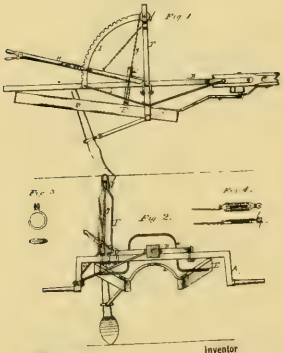
Witnesses.
C. H. Pierce
Wm. Johnson

Inventor.
R. D. Robbins
Chapman Homer & Co.
Attys.

F. N. Walter,

Wheel Cultivator.

No. 112,994. Patented Mar. 21, 1871.



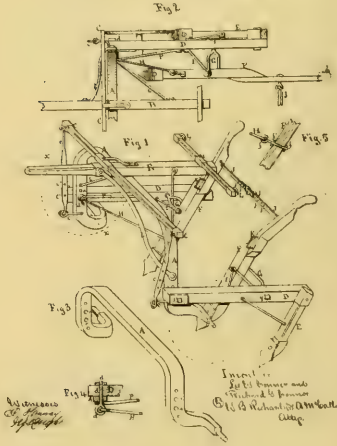
Witnesses:
J. J. Pierce
Kirven Wm. Smith

Inventor
Francis N. Walter by
J. M. Shaw Atty.

L. W. & R. G. Conner,

Cultivator.

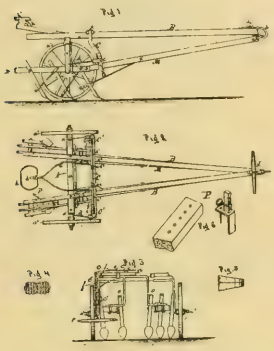
No. 113,019. Patented Mar. 28, 1871.



Witnesses
[illegible]

Inventors
Lewis Conner and
Richard G. Conner
by L. & R. G. Richardson & A. W. Bellows
Attys.

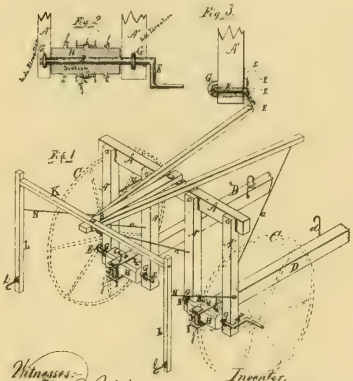
Gerber & Brown.
Wheel Cultivator.
No. 113,511. Patented Apr. 11, 1871.



Witnesses:
S. J. Boyce
F. H. Brown

Inventors:
Gerber & Brown by
H. W. Reader, atty

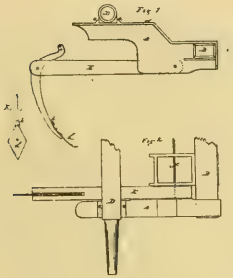
Wheel Cultivator.
No. 113,500. Patented Apr. 11, 1871.



Witnesses:
Platt R. Richards
H. B. Bergen

Inventor,
Almon Hunt
by H. B. Richards
his Atty.

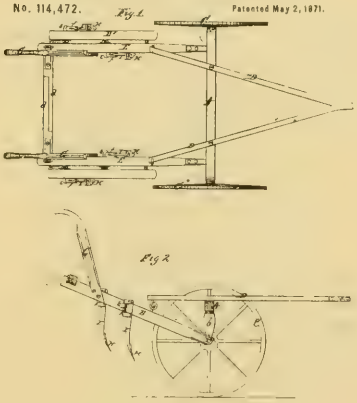
J. T. TROWBRIDGE.
Improvement in Seeders and Cultivators Combined.
No. 114,232. Patented April 25, 1871.



Witnesses
G. M. Paulson
J. J. Fred C.

Inventor
James T. Trowbridge

O. M. POND.
Improvement in Combined Plows and Markers.
No. 114,472. Patented May 2, 1871.



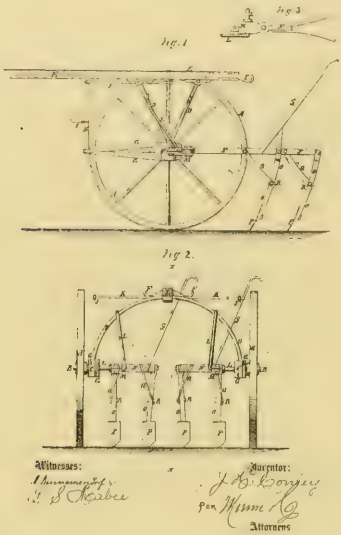
Witnesses
Jno. L. Ates
Geo. W. Hall

Inventor
O. M. Pond
by
T. H. Alexander

JOHN H. CONLEY

Improvement in Cultivators

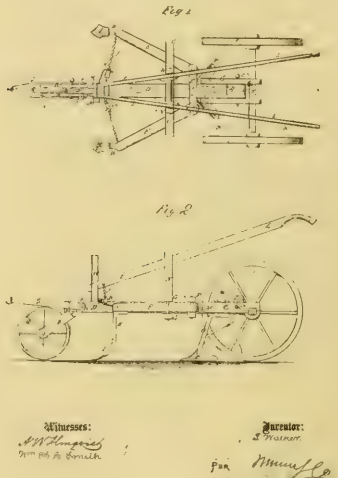
No. 114,767 Patented May 16, 1871.



L. WALKER.

Improvement in Cultivators.

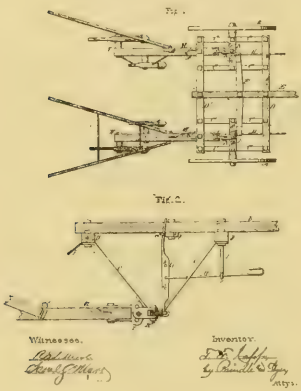
No. 115,138. Patented May 23, 1871.



T. F. CAPP.

Improvement in Cultivators.

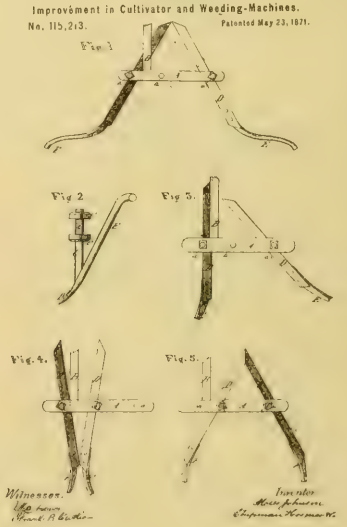
No. 115,159. Patented May 23, 1871.



M. JOHNSON.

Improvement in Cultivator and Weeding-Machines.

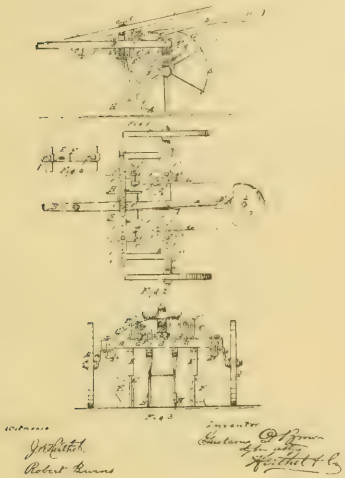
No. 115,213. Patented May 23, 1871.



G. D. BROWN.

Improvement in Corn-Cultivators.

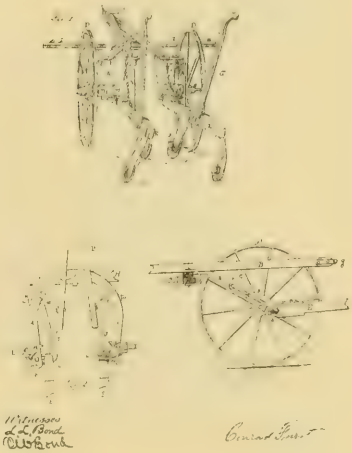
No. 115,427. Patented May 30, 1871.



C. FURST.

Improvement in Cultivators.

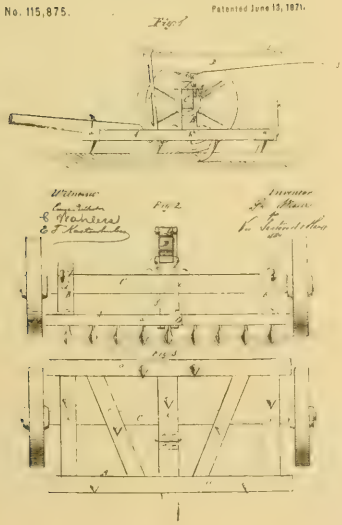
No. 115,459. Patented May 30, 1871.



PHILIP MAIER.

Improvement in Cultivators.

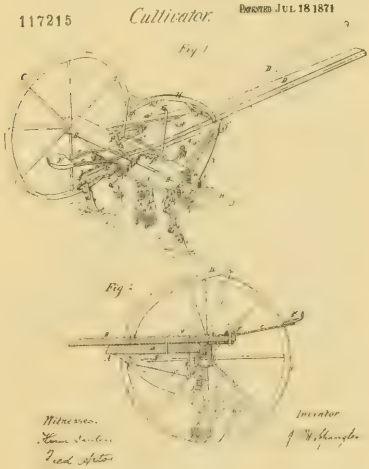
No. 115,875. Patented June 13, 1871.



J. W. Spangler,

Cultivator.

117215 Patented Jul. 18 1871



Newton J. Harris. Cultivator

117279 PATENTED JUL 25 1871

Fig. 1

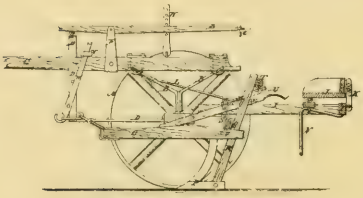
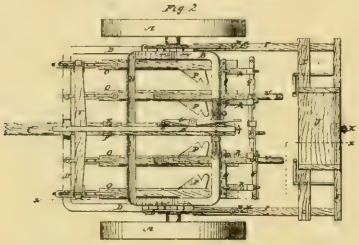


Fig. 2



Witnesses:
E. Wolff.
Wm. B. Johnson.

Inventor,
Newton J. Harris
Per Wm. G. Johnson
Attorneys

Henry P. Kynett. Impd. Cultivator.

117547 PATENTED AUG 1 1871

Fig. 1.

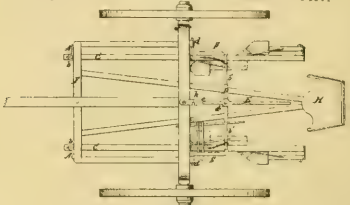
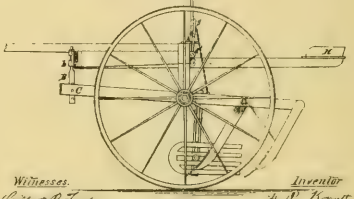
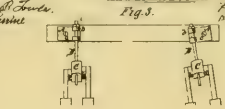


Fig. 2



Witnesses.
Gilbert W. Fowler.
H. L. Pierce.

Fig. 3.

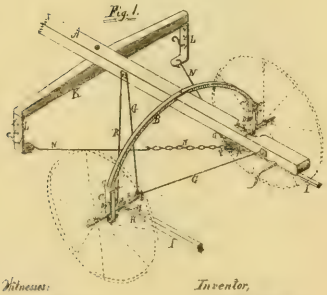


Inventor
H. P. Kynett
By W. B. Harris
Atty

Anthony H. Myers. Cultivator.

117803 PATENTED AUG 8 1871

Fig. 1.



Witnesses:
W. H. H. [illegible]
E. K. Shute

Inventor,
Anthony H. Myers
by W. B. Richards,
his Attorney.

Edwin Reese.

118053 *Cultivator.* PATENTED AUG 15 1871

Fig. 1

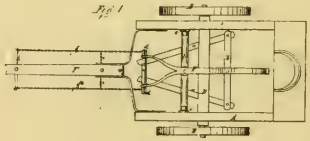


Fig. 2

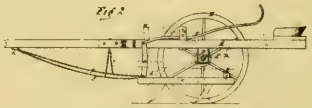
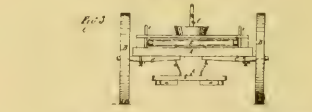
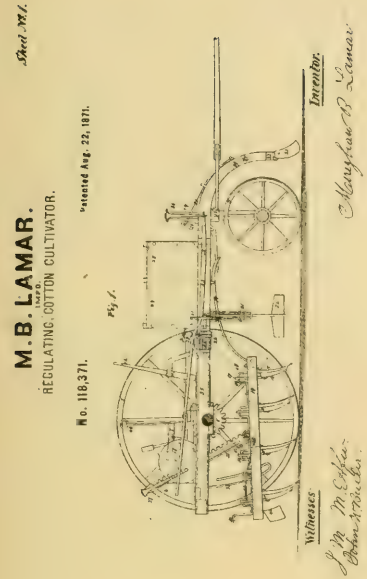


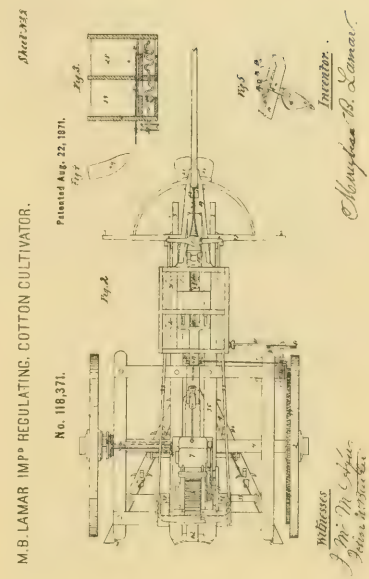
Fig. 3

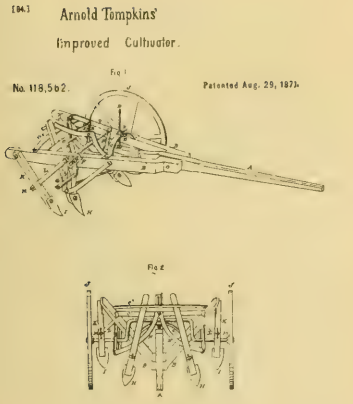


Witnesses:
H. J. Stoddy
Geo. D. C. Brown

Inventor:
Edwin Reese.
Per [illegible]
Attorneys.


Sheet No. 1.
M. B. LAMAR.
IMPD.
REGULATING COTTON CULTIVATOR.
No. 118,371.
Patented Aug. 22, 1871.
Fig. 1.
Inventor.
Witnesses.


Sheet No. 2.
M. B. LAMAR IMPD REGULATING COTTON CULTIVATOR.
No. 118,371.
Patented Aug. 22, 1871.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Inventor.
Witnesses.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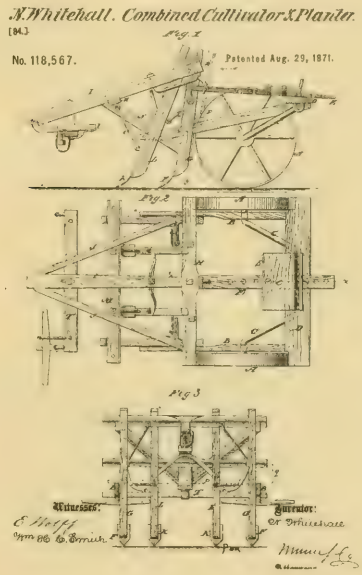
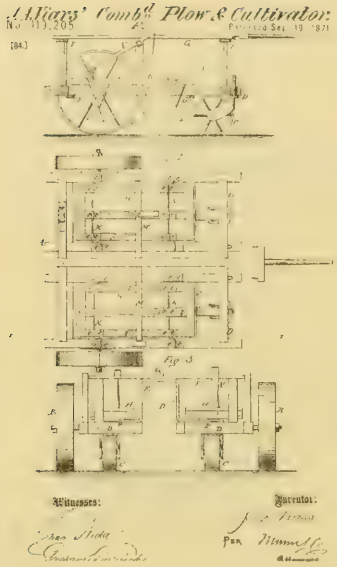
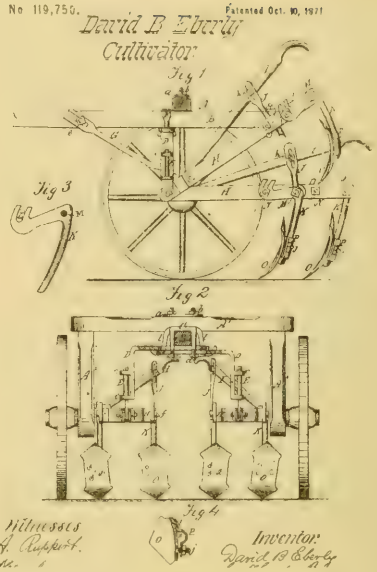
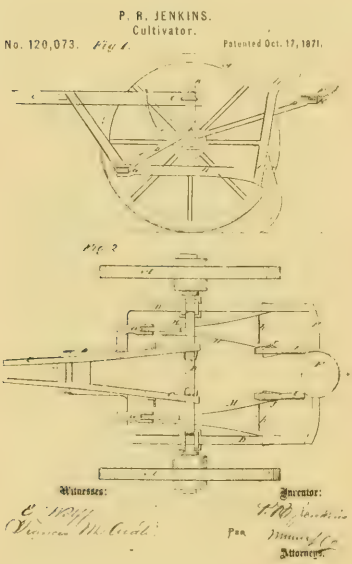
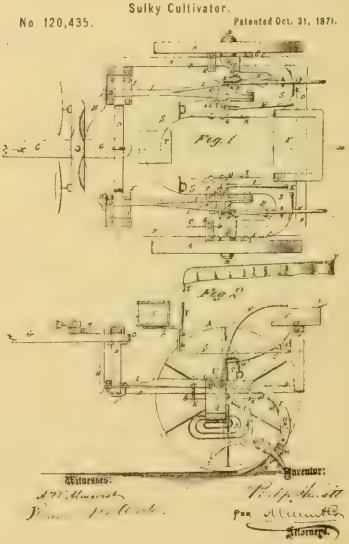
Arnold Tompkins'
Improved Cultivator.
No. 118,562.
Patented Aug. 29, 1871.
Fig. 1
Fig. 2
Arnold Tompkins Inventor,
by E. F. Whiteman Attorney
429 Seventh St
Washington D.C.
Witnesses,


N. Whitehall. Combined Cultivator & Planter.
[84.]
No. 118,567.
Patented Aug. 29, 1871.
Fig. 1
Fig. 2
Fig. 3
Witnesses:
Inventor:

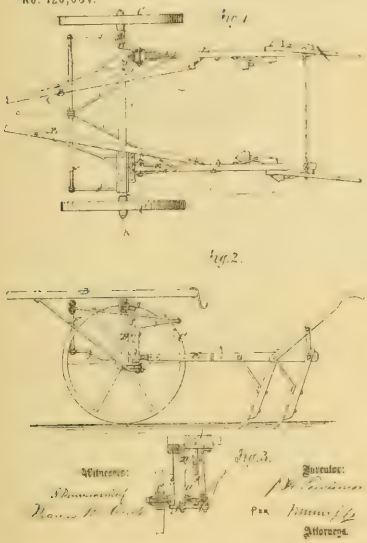

J. Allison's Combd Plow & Cultivator.
No 119,205
Patented Sep 19 1871
Fig 3
Witnesses:
Inventor:
Per Munn & Co
Attorneys


No 119,750.
Patented Oct. 10, 1871
David B. Eberly
Cultivator.
Fig 1
Fig 3
Fig 2
Fig 4
Witnesses
A. Ruppert.
Inventor:
David B. Eberly

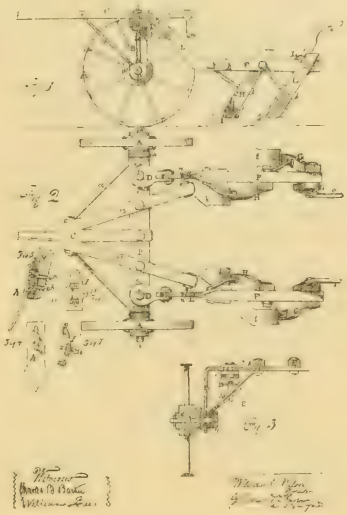

P. R. JENKINS.
Cultivator.
No. 120,073.
Fig 1.
Patented Oct. 17, 1871.
Fig 2
Witnesses:
Inventor:
Per
Attorneys.


PHILIP HEWITT.
Sulky Cultivator.
No 120,435.
Patented Oct. 31, 1871.
Fig 1
Fig 2
Witnesses:
Inventor:
Per
Attorneys.

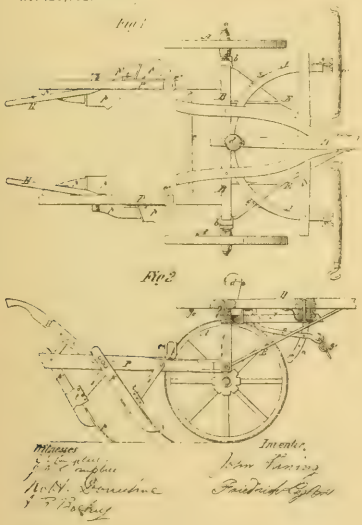
J. H. TOMLINSON. Improvement in Plows.
No. 120,681. Patented Nov. 7, 1871.



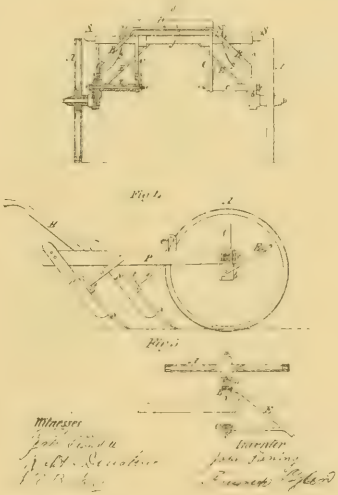
WILLIAM C. WILSON. Improvement in Wheel Cultivators.
No. 120,692. Patented Nov. 7, 1871.



JOHN FANING & FRIEDRICH LEGLER. 2 Sheets--Sheet 1.
Improvement in Cultivators.
No. 120,732. Patented Nov. 7, 1871.



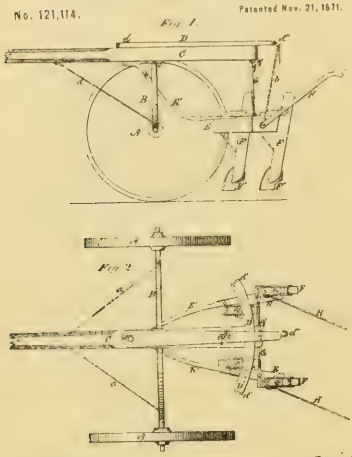
JOHN FANING & FRIEDRICH LEGLER. 2 Sheets--Sheet 2.
Improvement in Cultivators.
No. 120,732. Patented Nov. 7, 1871.



A. M. MANNY.

Improvement in Cultivators.

No. 121,114. Patented Nov. 21, 1871.



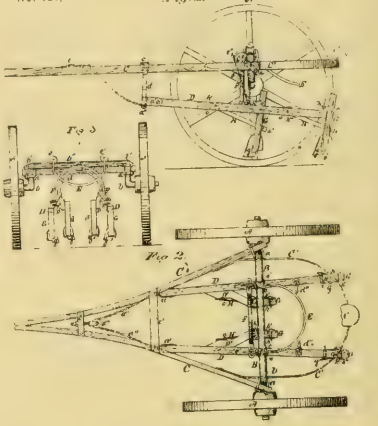
Witnesses:
J. E. Ruckt
Charles Chum

Inventor:
Abram M. Manny
By A. Cranford
atty.

A. M. MANNY.

Improvement in Cultivators

No. 121,115. Patented Nov. 21, 1871.



Witnesses
J. E. Ruckt
Charles Chum

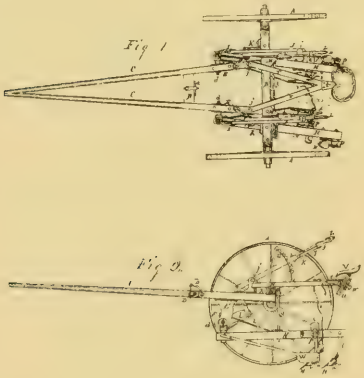
Inventor
Abram M. Manny
By A. Cranford
atty.

2 Sheets—Sheet 1.

M. L. GORHAM.

Improved Cultivator

No. 121,613. Patented Dec. 5, 1871



Witnesses
J. H. Taylor
B. Rockel

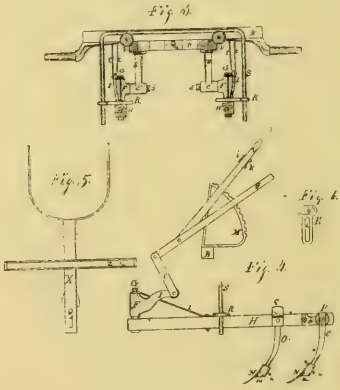
Inventor
M. L. Gorham

2 Sheets—Sheet 2.

M. L. GORHAM'S

Improved Cultivator

No. 121,613. Patented Dec. 5, 1871.



Witnesses.
J. H. Taylor
J. Kehl

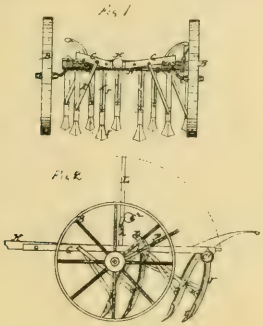
Inventor
M. L. Gorham

2 Sheets—Sheet 1.

T. C. SEBRING.

Improvement in Wheel Cultivators.

No. 121,670. Patented Dec. 5, 1871.



Witnesses:

Inventor:

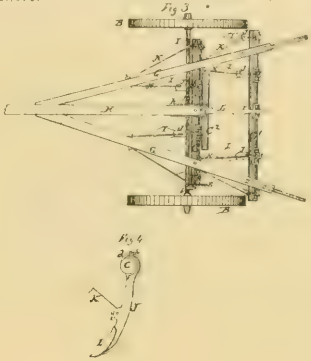
Attorneys

2 Sheets—Sheet 2.

T. C. SEBRING.

Improvement in Wheel Cultivators.

No. 121,670. Patented Dec. 5, 1871.



Witnesses:

Inventor:

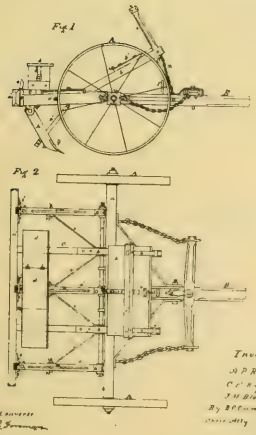
Attorneys

(114.) 2 Sheets—Sheet 1.

A. P. ROHRER, C. F. ROHRER & J. H. BLOSE.

Plows.

No. 122,284. Patented Dec. 26, 1871.

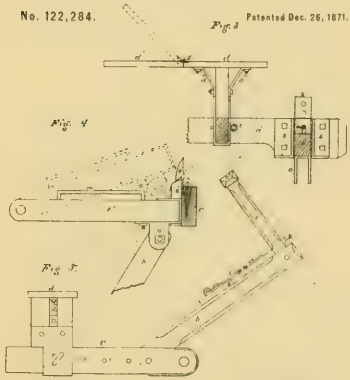


(114.) 2 Sheets—Sheet 2.

A. P. ROHRER, C. F. ROHRER & J. H. BLOSE.

Plows.

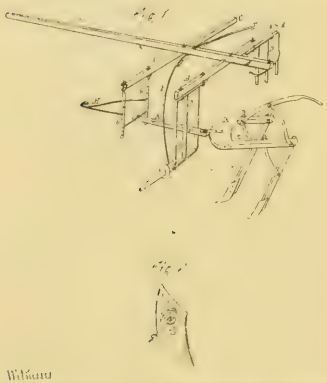
No. 122,284. Patented Dec. 26, 1871.



OSCAR L. NEISLER'S

Cultivator.

No. 122,400 Patented Jan. 2, 1872.



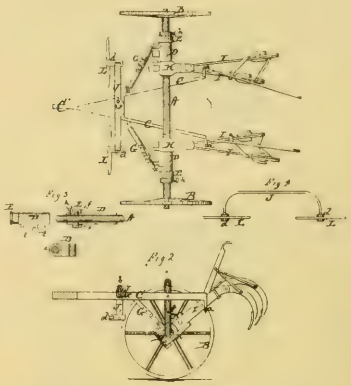
Witness

Thomas C. Crowe

A. F. CARLSON.

Improvement in Corn Plow.

No. 123,235. Patented Jan. 30, 1872.



Witnesses: Henry A. Miller, C. F. Quirk

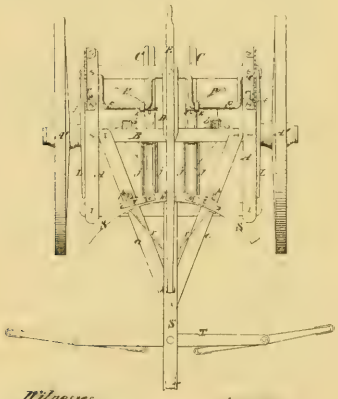
Inventor A. F. Carlson

2 Sheets—Sheet 1

A. S. McDERMOTT.

Improvement in Cultivators.

No. 123,715. Fig. 1 Patented Feb. 13, 1872.



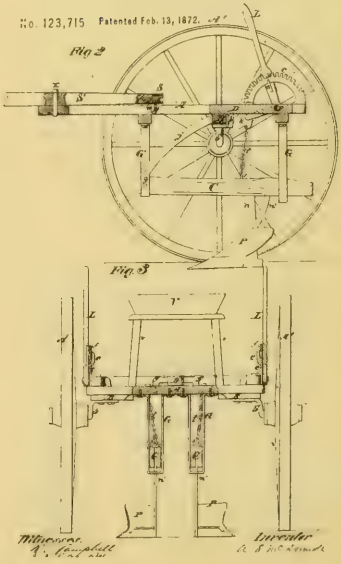
Witnesses

Inventor

A. S. McDERMOTT. 2 Sheets—Sheet 2.

Improvement in Cultivators.

No. 123,715 Patented Feb. 13, 1872.



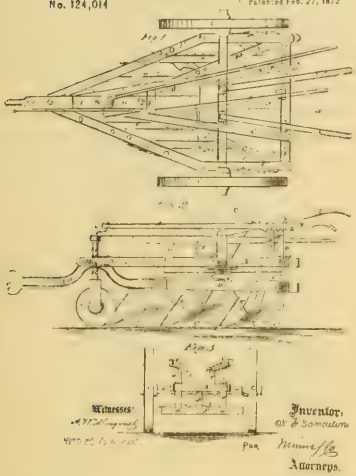
Witnesses

Inventor

N. F. SANDELIN

Improvement in Cultivators.

No. 124,014 Patented Feb. 27, 1872



Witnesses:

Inventor:

Per Munn & Co

Attorneys.

JOHN E. BYERS

Improvement in Cultivators

No. 124,329. Patented March 5, 1872

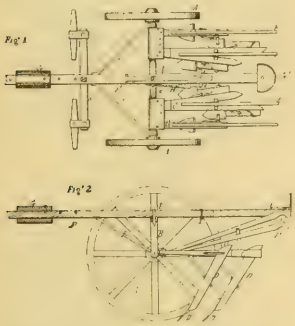
Witnesses.
Moses Sullivan
Charles A. Sullivan

Inventor:
John E. Byers.

JOSEPH T. W. LARRABEE.

Improvement in Cultivators.

No. 124,831. Patented March 19, 1872.



Witnesses

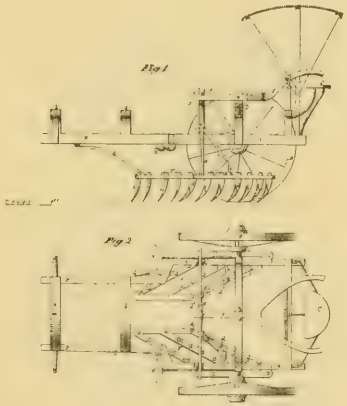
Inventor:

2 Sheets—Sheet 1

N. F. SANDELIN

Improvement in Cotton Cultivators.

No. 125,087. Patented March 26, 1872.



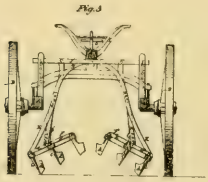
Witnesses

2 Sheets—Sheet 2

N. F. SANDELIN.

Improvement in Cotton Cultivators.

No. 125,087. Patented March 26, 1872



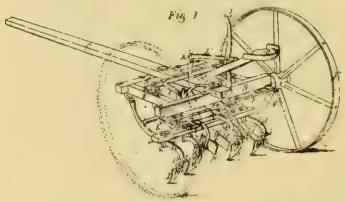
Witnesses.
Fred Hamer
T. R. Rabow

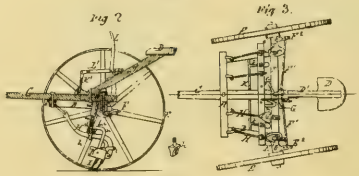
Nils F. Sandelin

J. W. SPANGLER.

Improvement in Cultivators.

No. 125,093 Patented March 26, 1872.





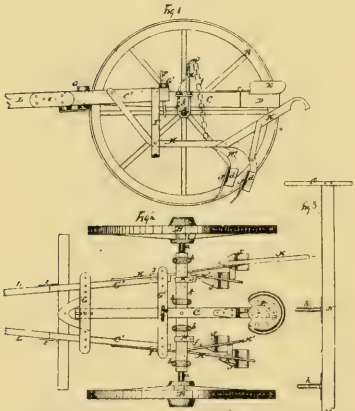
Witnesses.
Alex Baker
H. H. Dow Wheeler.

Inventor.
Jacob W. Spangler
by his Attorney
W. E. Arth

I. H. CHAPPELL.

Improvement in Cultivators.

No. 125,271. Patented April 2, 1872.



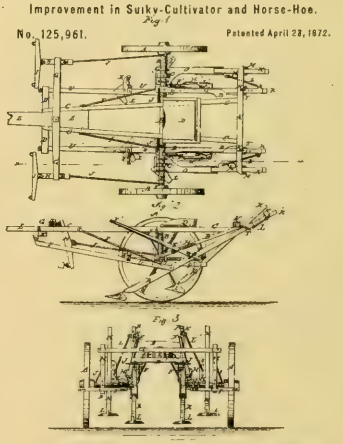
Witnesses:
Frank Hutchinson
A. T. Everett.

Inventor
Isaac H. Chappell
per Alexander Dunlap
Attorney

H. P. JORDAN.

Improvement in Sulky-Cultivator and Horse-Hoe.

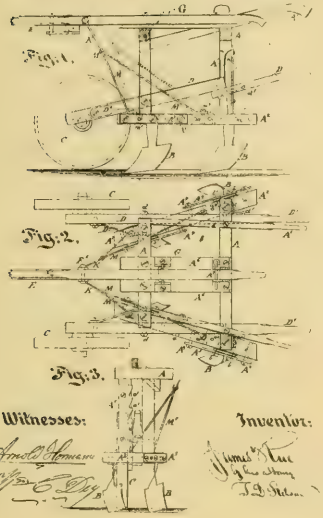
No. 125,961. Patented April 23, 1872.



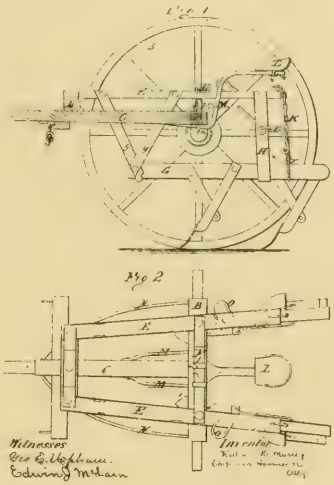
Witnesses:
Geo. Reid
Thomas McCall

Inventor:
Hugh P. Jordan
per Munn & Co.
Attorneys.

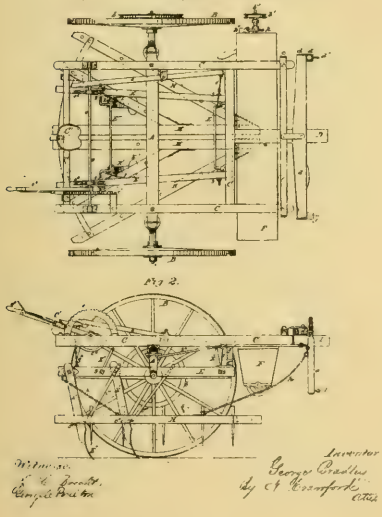
JAMES RUE. Improvement in Cultivators.
No 176 156. Patented April 30, 1872



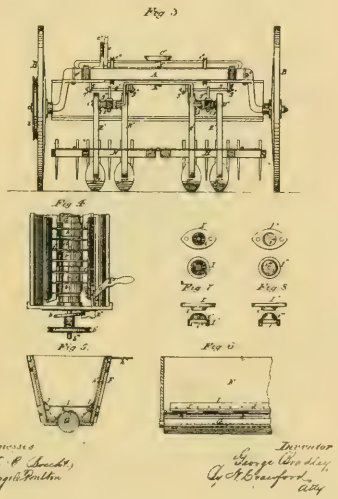
W. H MURREY.
Improvement in Cultivators.
No. 126,828. Patented May 14, 1872.



2 Sheets--Sheet 1.
GEORGE BRADLEY.
Improvement in Cultivators.
No. 127,674. Fig. 1 Patented June 11, 1872.



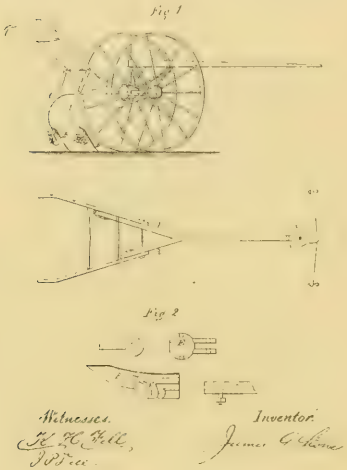
2 Sheets--Sheet 2.
GEORGE BRADLEY.
Improvement in Cultivators.
No. 127,674. Patented June 11, 1872.



JAMES G. STOWE.

Improvement in Cultivators.

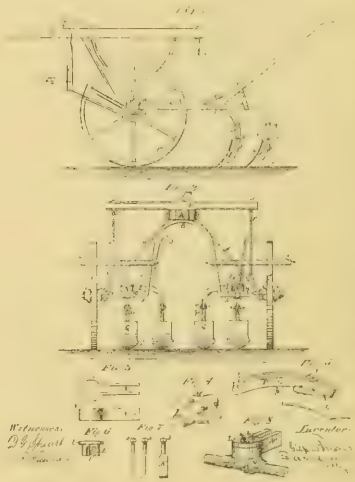
No. 127,935. Patented June 11, 1872.



G. MOORE

Improvement in Cultivators.

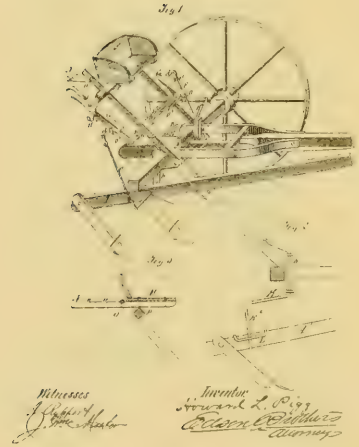
No. 128,499 Patented July 2, 1872



H. L. PIGG.

Improvement in Cultivators.

No. 128,653. Patented July 2, 1872.

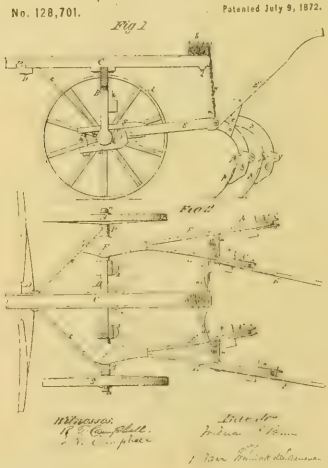


2 Sheets--Sheet 1.

W. P. BROWN.

Improvement in Cultivators.

No. 128,701. Patented July 9, 1872.

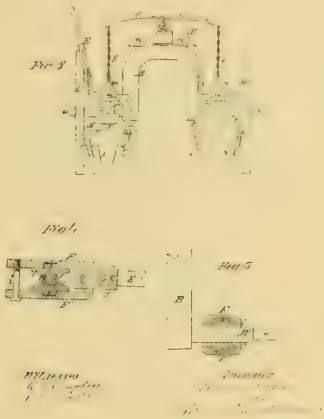


2 Sheets-Sheet 2

W. P. BROWN

Improvement in Cultivators

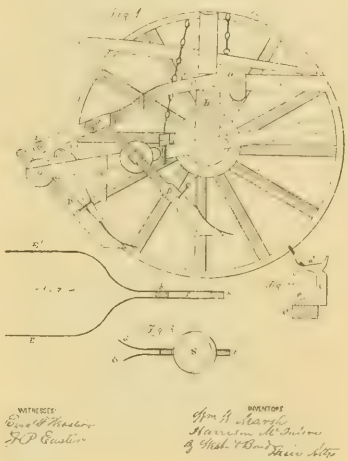
No. 128,701. Patented July 9, 1872



W. W. MARSH & H. McINTYRE.

Wheel-Cultivator

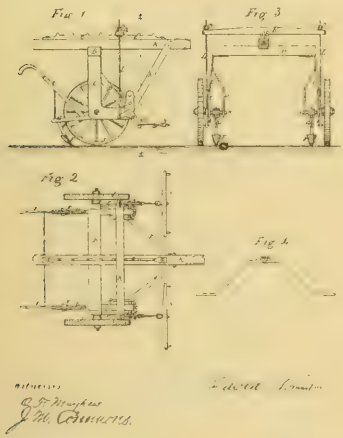
No. 128,969. Patented July 16, 1872.



D. NORMAN.

Improvement in Cultivators.

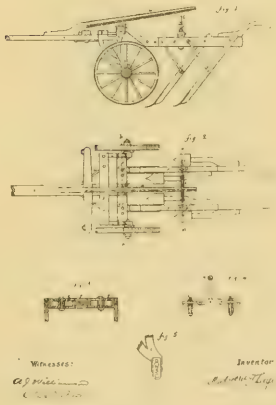
No. 129,420. Patented July 16, 1872.



A. THOMPSON.

Improvement in Cultivators.

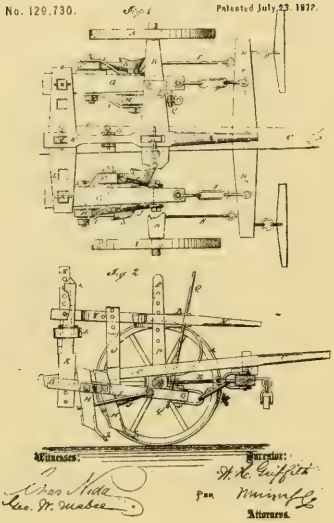
No. 129,693. Patented July 23, 1872.



W. H. GRIFFITH.

Cultivators.

No. 129,730. Patented July 23, 1872.



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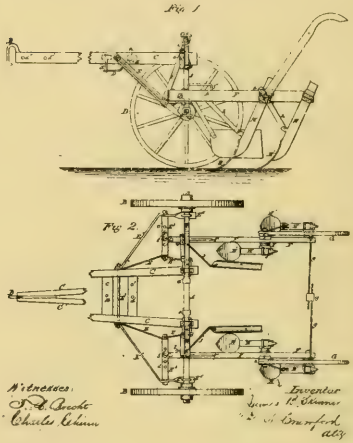
J. B. SKINNER.

Improvement in Cultivators.

No. 129,759. Patented July 23, 1872.

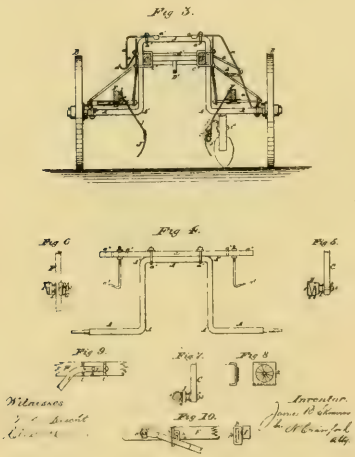


2 Sheets--Sheet 2.

J. B. SKINNER.

Improvement in Cultivators.

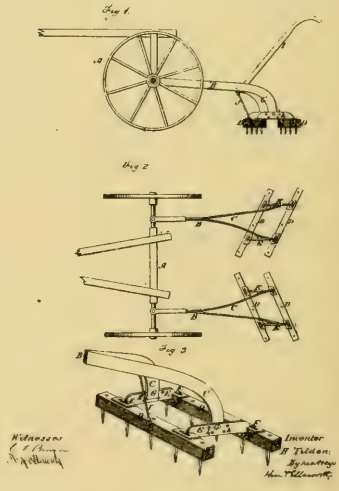
No. 129,759. Patented July 23, 1872.



H. TILDEN.

Improvement in Cultivators

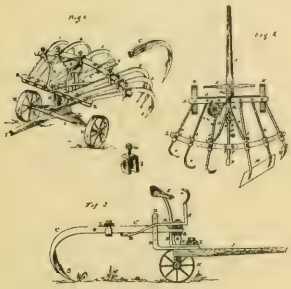
No. 130,337. Patented Aug. 6, 1872.



M. STOLL.

Improvement in Cultivators.

No. 130,393. Patented Aug. 13, 1872.

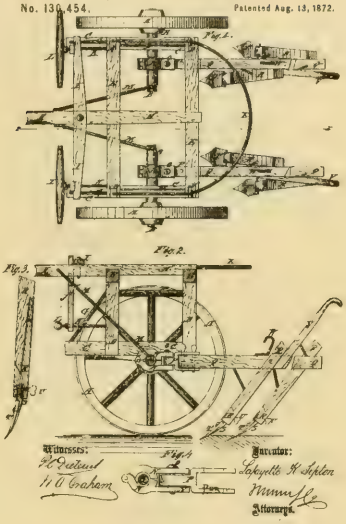


Witnesses. Inventor

L. K. TIPTON.

Improvement in Cultivators.

No. 130,454. Patented Aug. 13, 1872.



Witnesses: Inventor: Attorneys.

W. H. CUMMINGS.

Improvement in Cultivators.

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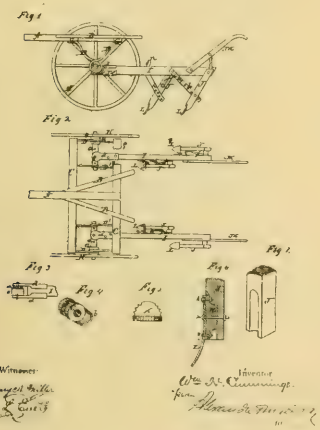

Witnesses: Inventor

W. R. ROBINSON.

Improvement in Cultivators.

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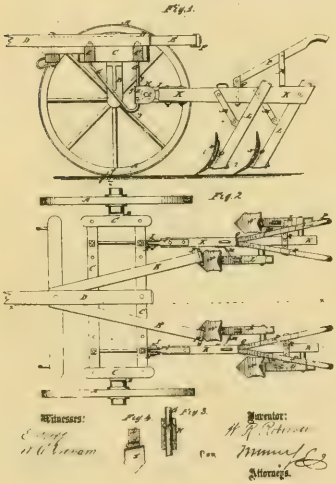
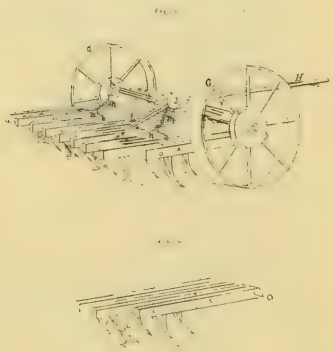


Witnesses: Inventor: Attorneys.

G. H. LUND

Improvement in Cultivators.

No. 131,404. Patented Sep. 17, 1872



Witnesses.
F. M. Smith
James Cushing

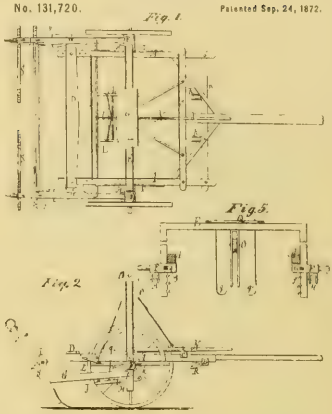
Inventor.
George Henry Lund

2 Sheets--Sheet 1

W. L. THOMPSON

Cultivator

No. 131,720. Patented Sep. 24, 1872.



Witnesses
A. J. Langston
Joseph R. Smith

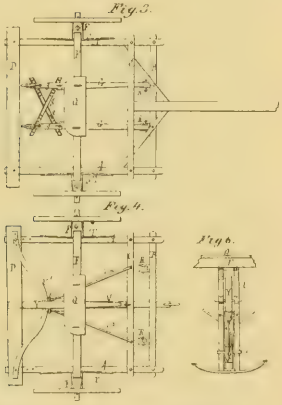
Inventor:
William L. Thompson
by A. R. Brown,
Attorney

2 Sheets--Sheet 2.

W. L. THOMPSON.

Cultivator.

No. 131,720. Patented Sep. 24, 1872.



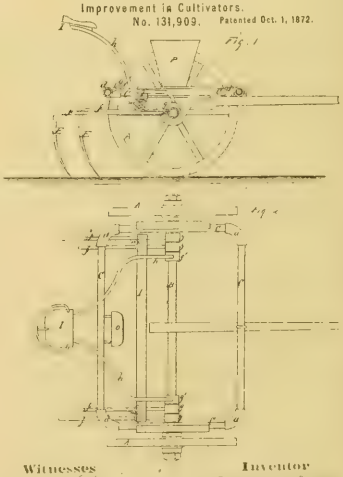
Witnesses.
A. J. Langston
Joseph R. Smith

Inventor.
William L. Thompson,
by A. R. Brown,
Attorney.

A. T. SHERWOOD.

Improvement in Cultivators.

No. 131,909. Patented Oct. 1, 1872.



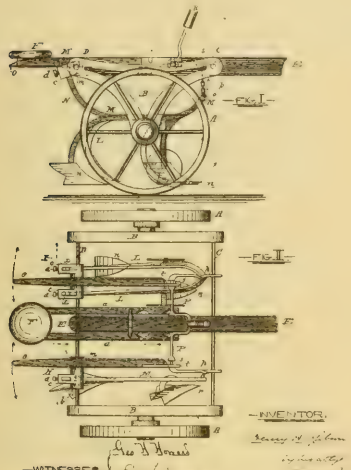
Witnesses

Inventor

H. H. GIBSON.

Improvement in Cultivators.

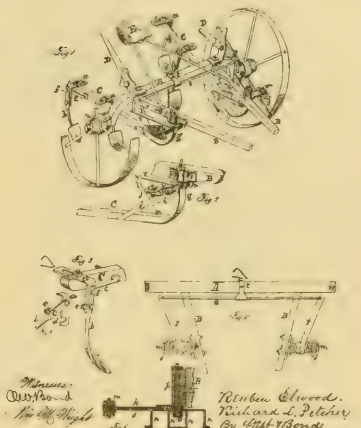
No. 132,277. Patented Oct. 15, 1872.



R. ELWOOD & R. L. PITCHER.

Improvement in Cultivators.

No. 132,527. Patented Oct. 29, 1872.



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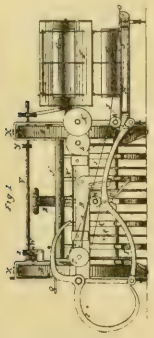
S. MARTIN.

Improvement in Combined Seeders and Cultivators.

No. 132,845. Patented Nov. 5, 1872.

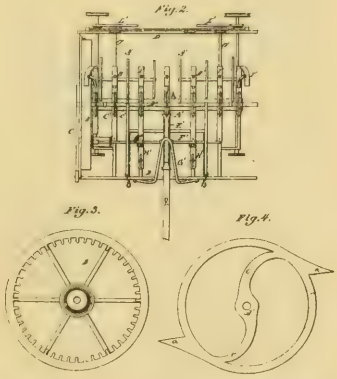


3 Sheets--Sheet 2

S. MARTIN.

Improvement in Combined Seeders and Cultivators.

No. 132,845. Patented Nov. 5, 1872.

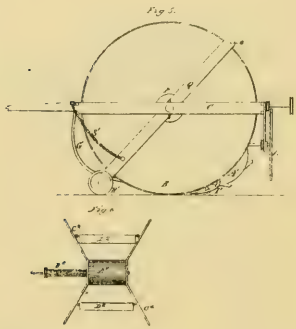


3 Sheets--Sheet 3.

S. MARTIN.

Improvement in Combined Seeders and Cultivators

No. 132,845 Patented Nov. 5, 1872.



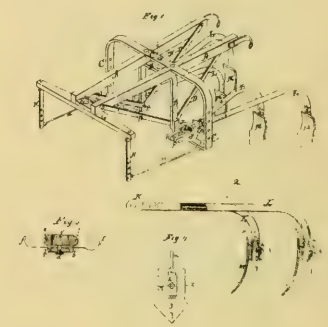
Witnesses:

Inventor

J. G. STOWE

Improvement in Cultivators.

No. 133,067. Patented Nov. 12 1872



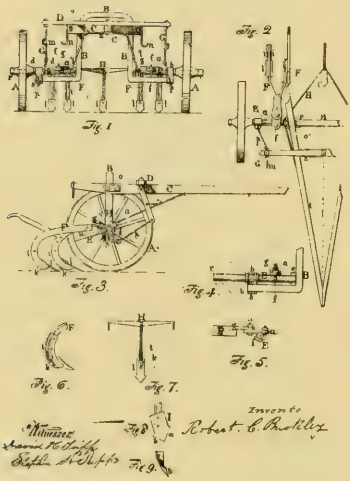
Witnesses:

Inventor

R. C. BUCKLEY.

Cultivators.

No. 134,248 Patented Dec. 24, 1872.



Witnesses

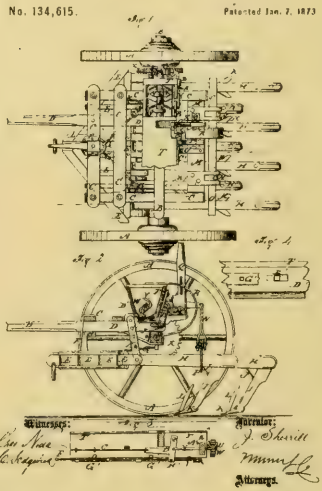
Inventor

Robert C. Buckley

J. SHERRILL.

Cultivators.

No. 134,615. Patented Jan. 7, 1873



Witnesses:

Inventor:

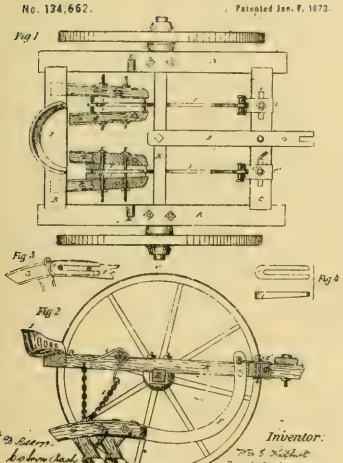
J. Sherrill

Attorneys.

W. C. HALBURT.

Cultivators.

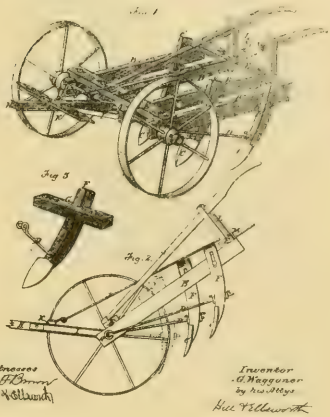
No. 134,662. Patented Jan. 7, 1873.



G. WAGGONER.

Cultivators

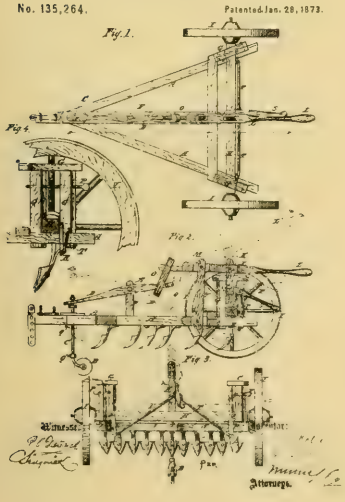
No. 134,949. Patented Jan. 14, 1873



A. B. COLVER & J. PRIEST.

Cultivators.

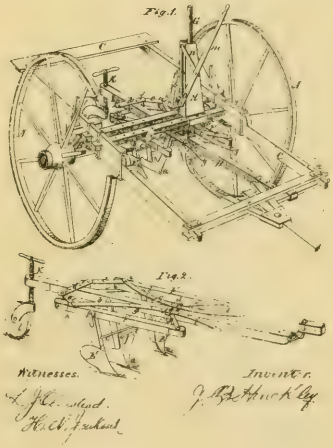
No. 135,264. Patented Jan. 28, 1873.



J. B. HINCKLEY.

Cultivators.

No. 135,912. Patented Feb. 18, 1873



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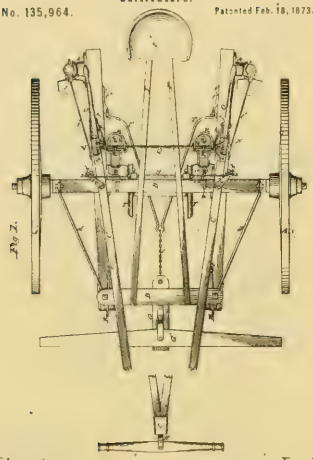
J. BEHEL.
Cultivators.

No. 135,964. Patented Feb. 18, 1873.



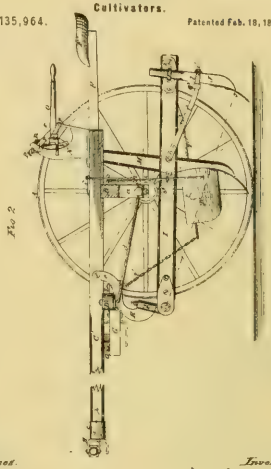
Witnesses:
F. E. Brett,
Joel Ryton

Inventor:
Joel Behel
by his Atty
W. D. Bolsum

4 Sheets--Sheet 2.

J. BEHEL.
Cultivators.

No. 135,964. Patented Feb. 18, 1873.



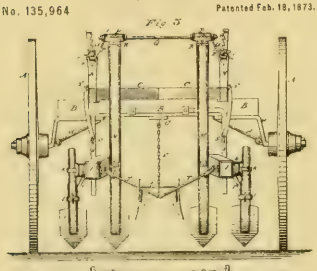
Witnesses.
F. E. Brett.
Joel Ryton

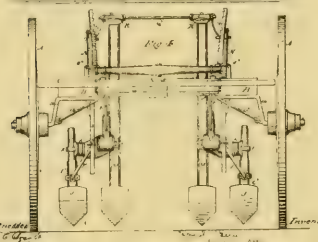
Inventor.
Joel Behel
by his Atty
W. D. Bolsum

4 Sheets--Sheet 3.

J. BEHEL.
Cultivators.

No. 135,964 Patented Feb. 18, 1873.





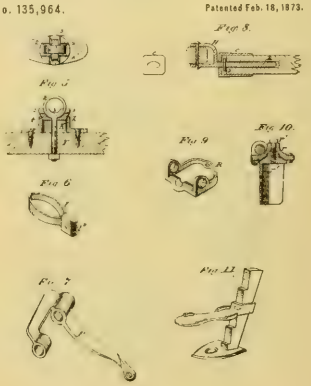
Witnesses
F. E. Brett
Joel Ryton

Inventor.
W. D. Bolsum

4 Sheets--Sheet 4.

J. BEHEL.
Cultivators.

No. 135,964. Patented Feb. 18, 1873.



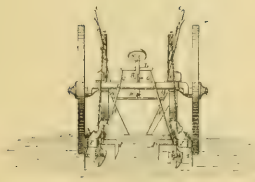
Witnesses
F. E. Brett
Joel Ryton

Inventor.
Joel Behel
by his Atty
W. D. Bolsum

J. MILLS.

Cultivators.

No. 135,997. Patented Feb. 18, 1873.



WITNESSES

INVENTOR.

D. EDWARDS.

Cultivators.

No. 136,047 Patented Feb. 18, 1873.

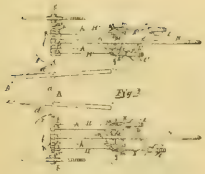
Witnesses

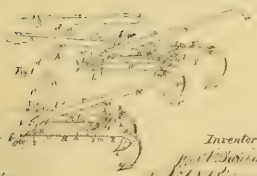
Inventor

J. W. SWICKARD.

Cultivators.

No. 136,108. Patented Feb. 18, 1873.





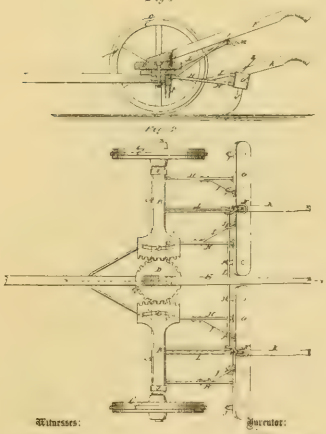
Witnesses

Inventor:

S. L. YOUNG.

Cultivators.

No. 136,297 Patented Feb. 25, 1873



Witnesses:

Inventor:

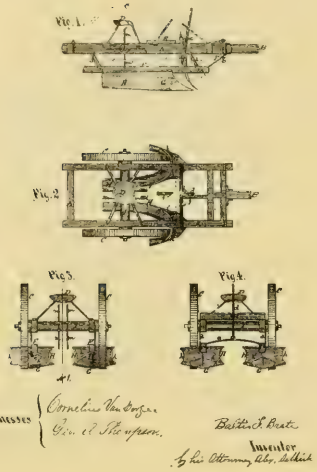
Per

Attorneys.

B. F. BRATE

Cultivators.

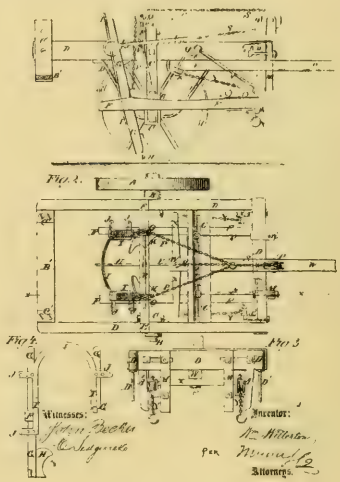
No. 136,409. Patented March 4, 1873.



W. WILLERTON

Cultivators

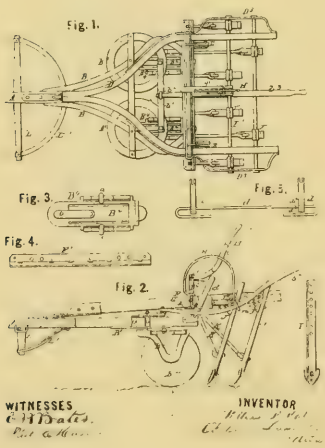
No. 136,477. Patented March 4, 1873



W. P. DALE.

Cultivators.

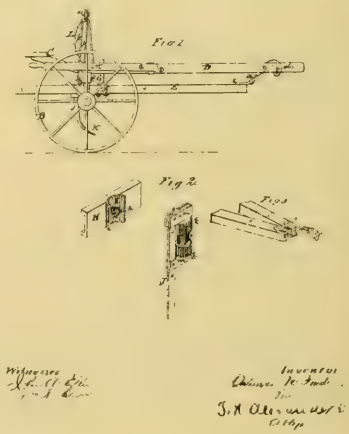
No. 136,708. Patented March 11, 1873.



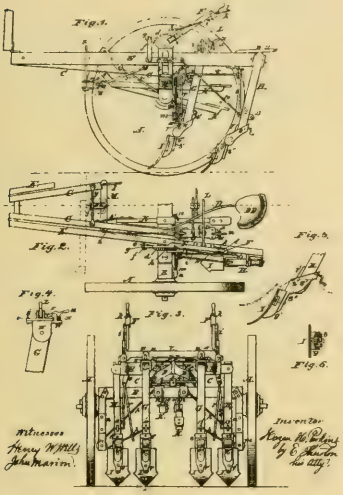
O. M. POND.

Cultivators.

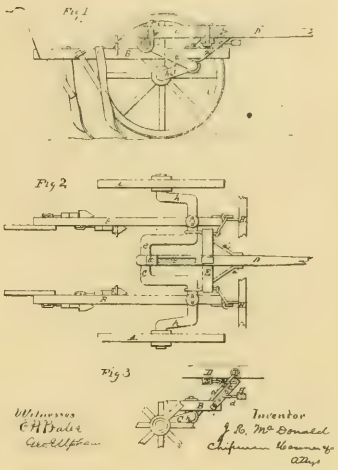
No. 137,094 Patented March 25, 1873



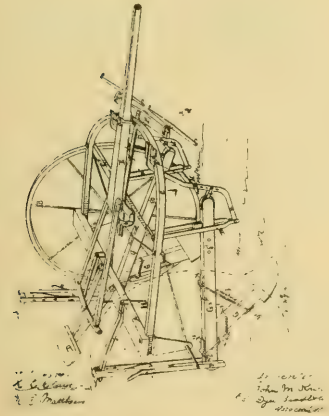
H. H. PERKINS.
Cultivators.
No. 137,478 Patented April 1, 1873.



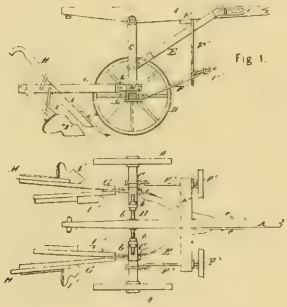
J. R. McDONALD
Cultivators
No. 137,703. Patented April 8, 1873



J. M. KNOX.
Cultivators.
No. 137,933. Patented April 15, 1873.



C. THEDE.
Cultivators.
No. 138,451. Patented April 29, 1873



WITNESSES.
C. H. Probst
Geo. Ellyson

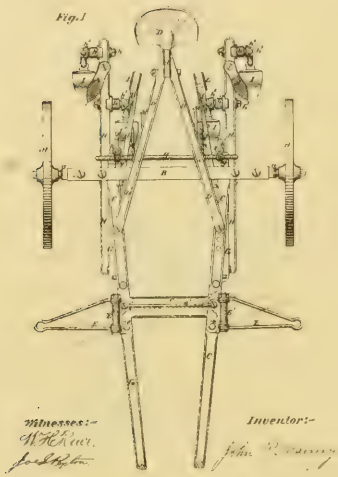
INVENTOR
Christ. Thede
Chipman Bowman &
Attys.

2 Sheets--Sheet 1.

J. P. MANNY.
Cultivators.

No. 139,471. Patented June 3, 1873.

Fig. 1



Witnesses:-
W. H. Rowe.
Jos. H. Ryder

Inventor:-
John P. Manny

2 Sheets--Sheet 2

J. P. MANNY.
Cultivators.

No. 139,471. Patented June 3, 1873

Fig. 2

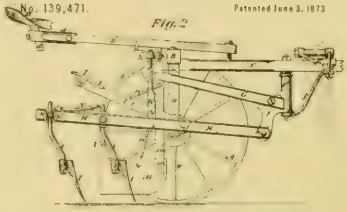


Fig. 4 Fig. 5

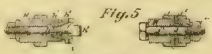


Fig. 3

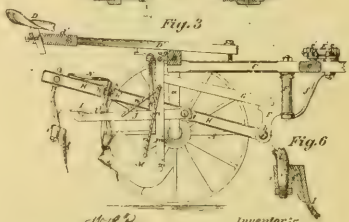


Fig. 6

Witnesses:- W. H. Rowe. Jos. H. Ryder.

Inventor:- John P. Manny

2 Sheets--Sheet 1

G. R. RICHARDSON & J. BEHEL.
Cultivators.

No 139,478 Patented June 3, 1873.

Fig. 1.

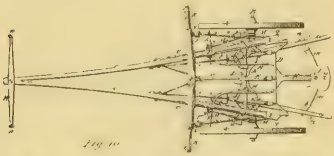
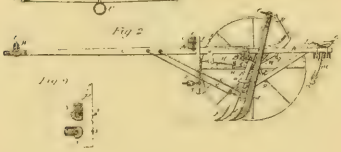


Fig. 2



Attest:
G. L. Chapin
T. S. Gibbon

Inventor:
Geo. R. Richardson
Jacob Behel.

2 Sheets--Sheet 2

G. R. RICHARDSON & J. BEHEL.
Cultivators.

No 139,478. Patented June 3, 1873

Fig. 3 Fig. 4.

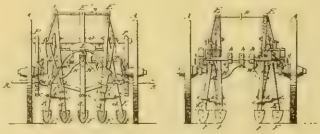


Fig. 5 Fig. 5

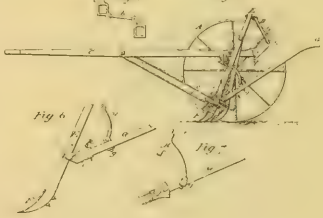
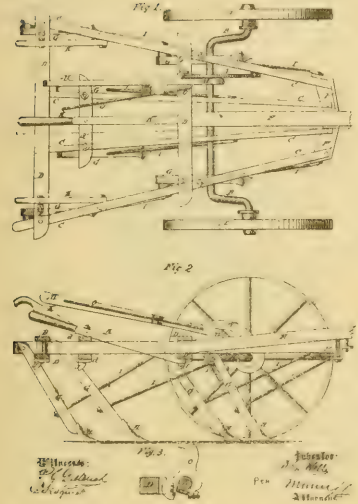


Fig. 6. Fig. 7.

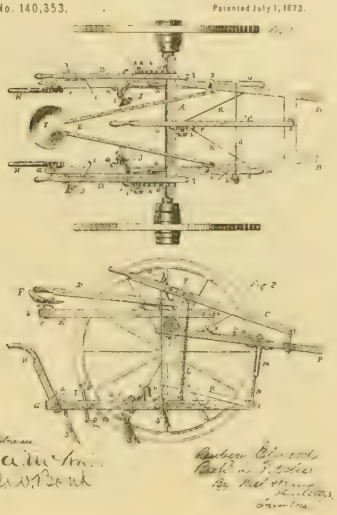
Attest:
G. L. Chapin
T. S. Gibbon

Inventors:
Geo. R. Richardson
Jacob Behel

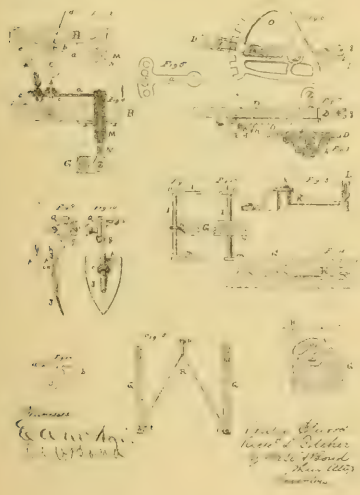
P. F. WELLS.
Cultivators.
No. 139,985 Patented June 17, 1873



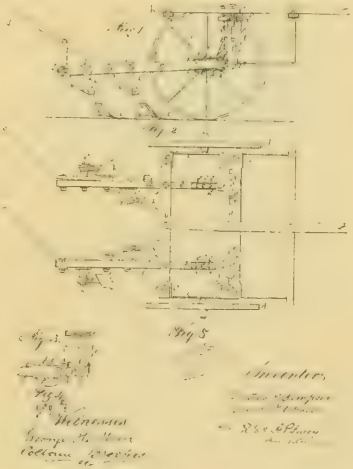
2 Sheets--Sheet 1
R. ELWOOD & R. L. PITCHER.
Cultivators.
No. 140,353. Patented July 1, 1873.



2 Sheets--Sheet 2
R. ELWOOD & R. L. PITCHER.
Cultivators.
No. 140,353. Patented July 1, 1873.

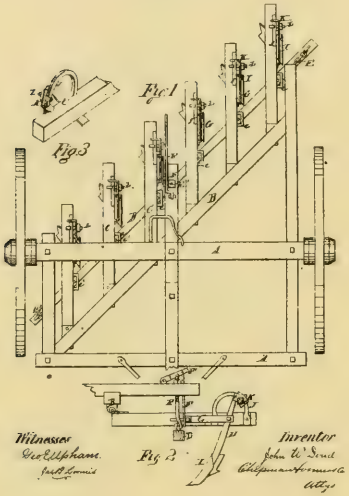


M. P. SIMPSON & J. P. ELLACOTT.
Cultivators.
No. 140,437. Patented July 1, 1873.



J. W. DOUD.
Cultivators.

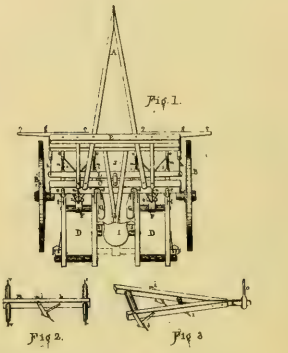
No. 140,484. Patented July 1, 1873.



Witnesses
Geo. Ellpham.
Inventor
John W. Doud
Ellpham & Connolly
Attys

R. B. ROBBINS.
Cultivators.

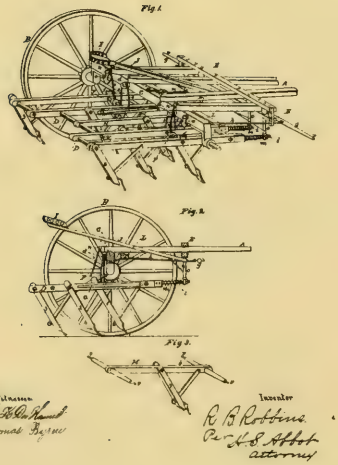
No. 141,462. Patented August 5, 1873



Witnesses
H. J. Wentworth
Geo. E. Cornell
Inventor
Richard B. Robbins

R. B. ROBBINS.
Cultivators.

No. 5,676. Reissued Dec. 2, 1873.

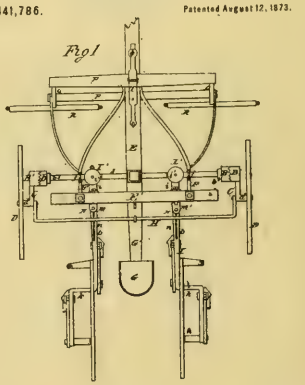


Witnesses
Thomas Bayne
Inventor
R. B. Robbins
Per H. S. Abbot
attorney

2 Sheets--Sheet

J. M. GUSTIN.
Cultivators.

No. 141,786. Patented August 12, 1873.

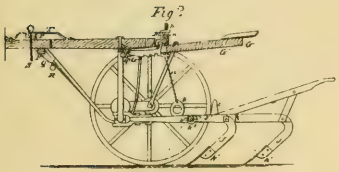


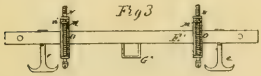
Witnesses
J. B. Connolly
Inventor
Jonathan M. Gustin
Ellpham & Connolly
Attys

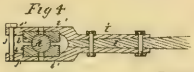
2 Sheets--Sheet 2

J. M. GUSTIN.
Cultivators.

No. 141,786. Patented August 12, 1873.





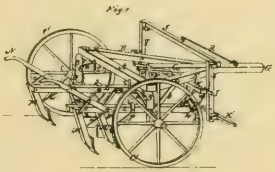


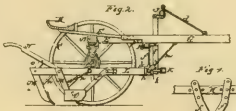
Witnesses
Martin Connolly
J. B. Connolly

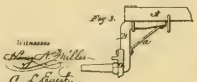
Inventor
Justus M. Gustin
by Thos. Connolly
Atty.

N. G. BLAUSER.
Corn Cultivators.

No. 141,988. Patented August 19, 1873.







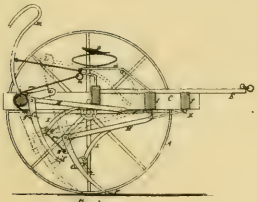
Witnesses
Chas. N. Miller
A. L. Gaines

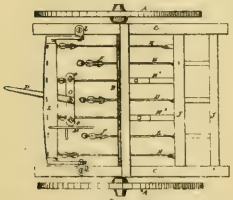
Inventor
Noah G. Blauser
Per
Alexander Dunlop
Attorney

2 Sheets--Sheet 1.

J. H. FRANK.
Cultivators.

No. 143,338. Patented September 30, 1873.





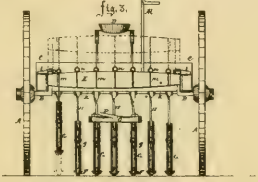
Witnesses
Geo. W. Fogg
Wm. E. Chaffee

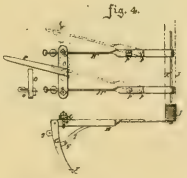
Inventor
John H. Frank
By James L. Norris
Atty.

2 Sheets--Sheet 2.

J. H. FRANK.
Cultivators.

No. 143,338. Patented September 30, 1873.



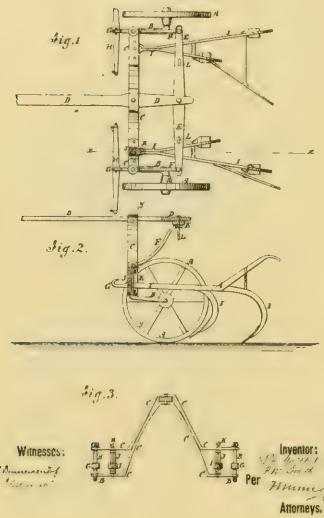


Witnesses
Geo. W. Fogg
Wm. E. Chaffee

Inventor
John H. Frank
By James L. Norris
Atty.

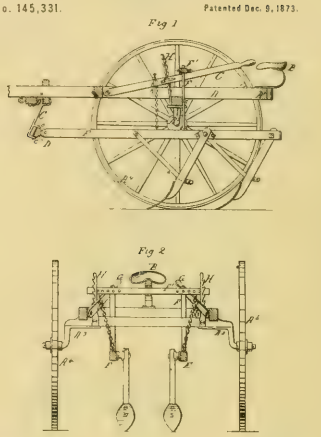
J. F. MATCHET & F. W. SMITH.
Wheel-Cultivators.

No. 143,631. Patented Oct. 14, 1873.



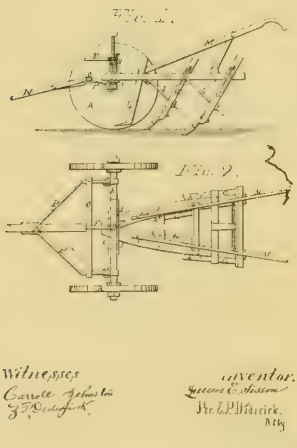
G. BRADLEY.
Wheel-Cultivators.

No. 145,331. Patented Dec. 9, 1873.



J. E. SISSON.
Cultivators.

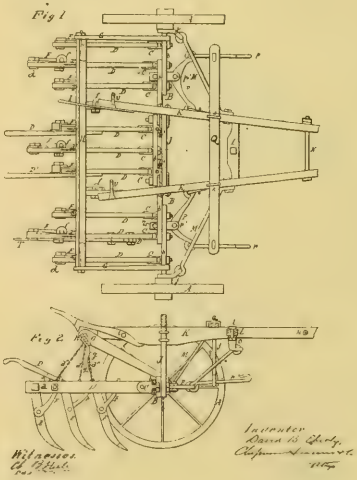
No. 145,535. Patented Dec. 16, 1873.



2 Sheets--Sheet 1.

D. B. LEERLY.
Cultivators.

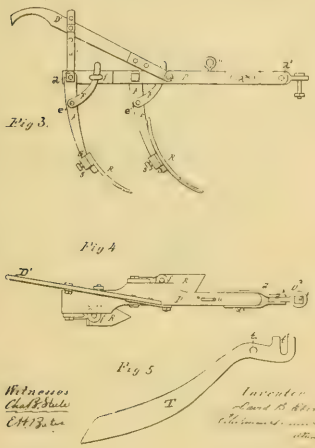
No. 145,636. Patented Dec. 16, 1873.



2 Sheets--Sheet 2.

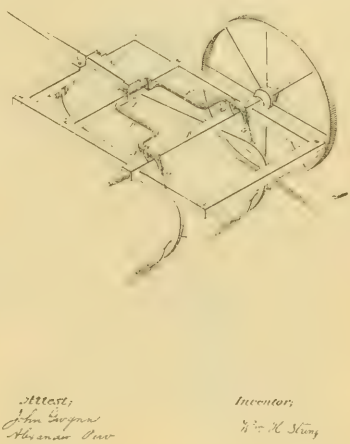
D. B. EBERLY.
Cultivators.

No. 145,636. Patented Dec. 16, 1873.



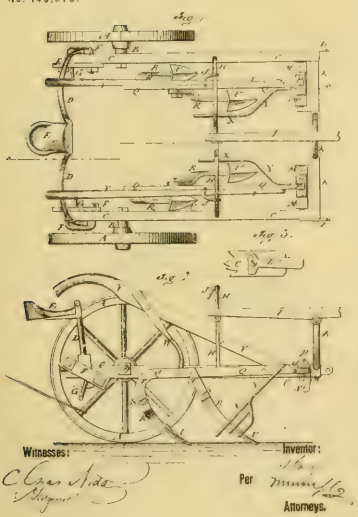
W. H. STRONG
Wheel-Cultivators.

No. 146,030. Patented Dec. 30, 1873



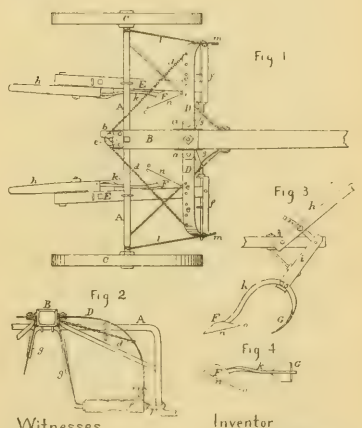
I. CORY.
Cultivators.

No. 146,576. Patented Jan. 20, 1874.

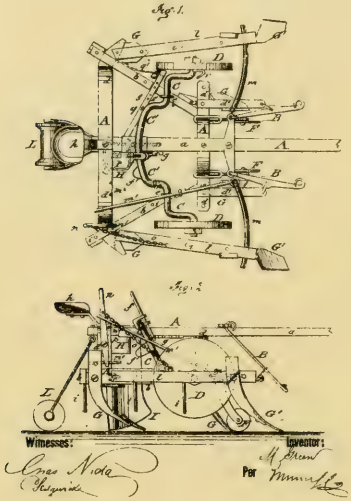


J. P. BATTEN.
Plows.

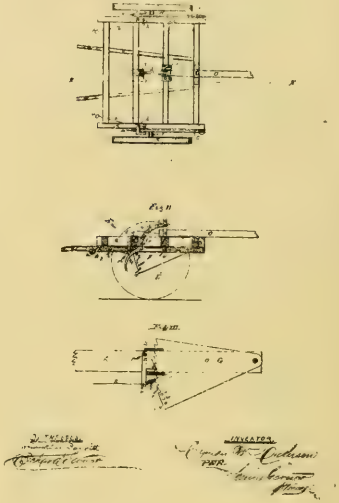
No. 146,638. Patented Jan. 20, 1874.



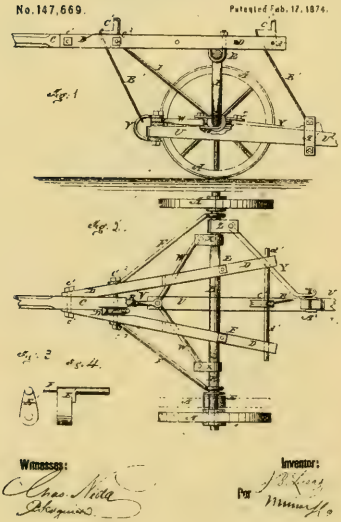
M. GREEN
Combined Cultivators, Stalk-Cutters, Harrows, and Corn-Planters.
No. 146,822. Patented Jan. 27, 1874.



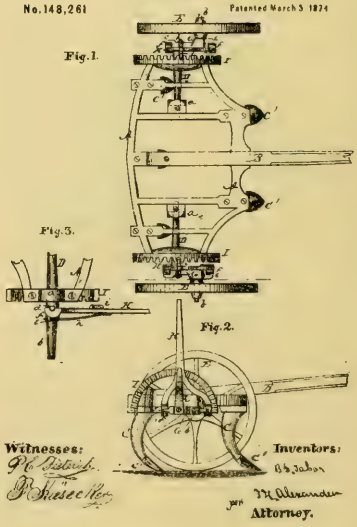
L. W. DICKERSON.
Quack Diggers and Cultivators
No. 147,245 Patented Feb. 10 1874.



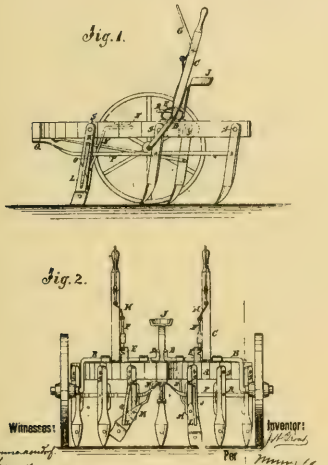
J. B. LUCAS.
Cultivators and Plows.
No. 147,669. Patented Feb. 17, 1874.



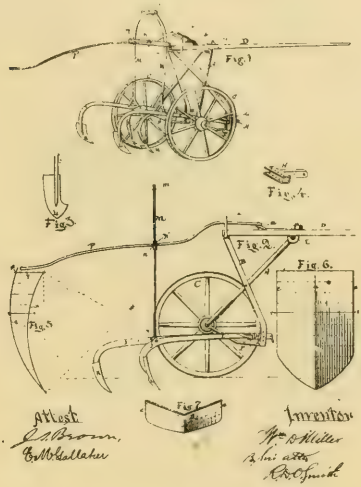
B. D. TABOR
Cultivators
No. 148,261 Patented March 3 1874



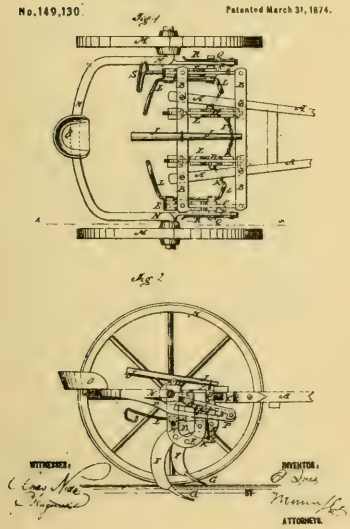
J. H. TROUT.
Corn-Plows.
No. 148,781. Patented March 17, 1874.



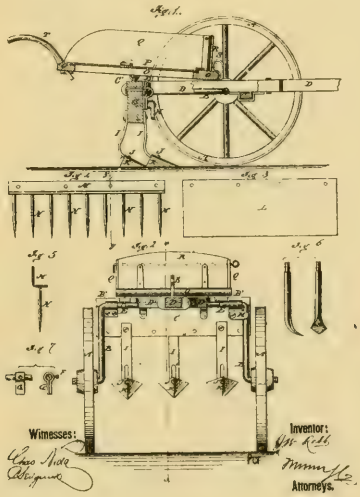
W. D. MILLER.
Cultivators.
No. 148,839. Patented March 24, 1874.



E. IVES.
Sulky Cultivators.
No. 149,130. Patented March 31, 1874.

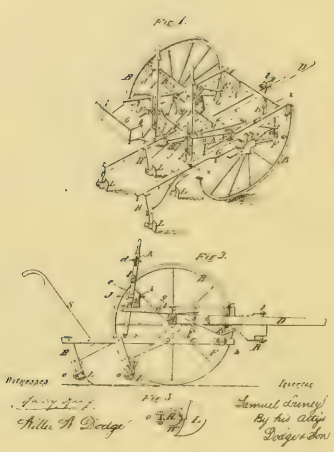


J. W. RABB.
Frames for Cultivators, Scrapers, &c.
No. 149,154. Patented March 31, 1874.



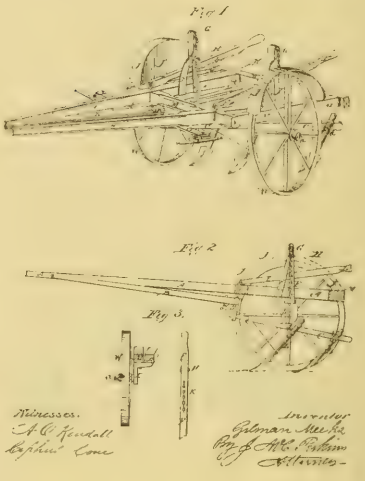
S. LUNEY.
Cultivators.

No. 149,938. Patented April 21, 1874.



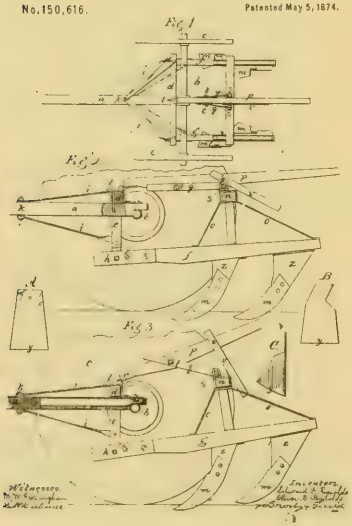
G. MEEKS.
Cultivators.

No. 150,426. Patented May 5, 1874.



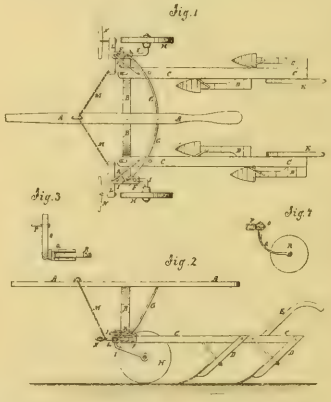
E. D. & O. B. REYNOLDS.
Wheel-Cultivators.

No. 150,616. Patented May 5, 1874.



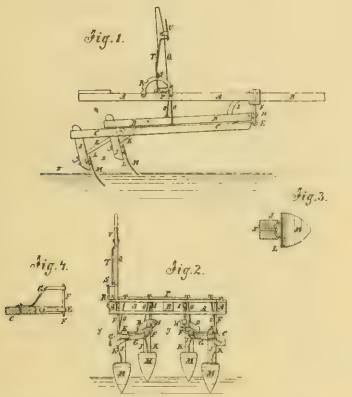
A. BAKKER.
Cultivators and Markers.

No. 151,530. Patented June 2, 1874.



J., D. W., & W. J. McGEE
Cultivators.

No. 151,789. Patented June 9, 1874.



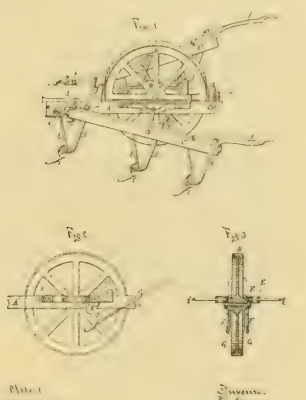
Witnesses:

Inventor:

Per

H. CARGO.
Cultivators.

No. 151,839. Patented June 9, 1874.



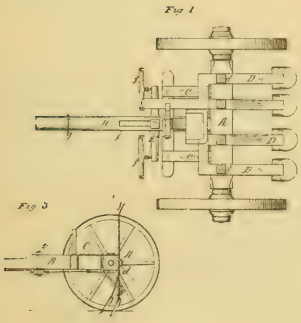
Witnesses:

Inventor:

2 Sheets--Sheet 1.

L. J. DAVIS.
Cultivators.

No. 152,343. Patented June 23, 1874.



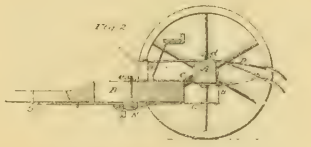
Witnesses:

Inventor:

2 Sheets--Sheet 2.

L. J. DAVIS.
Cultivators.

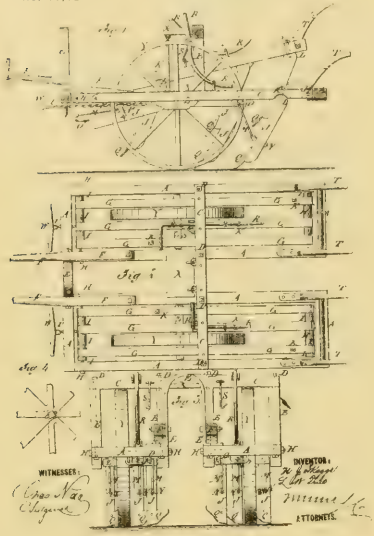
No. 152,343 Patented June 23, 1874.



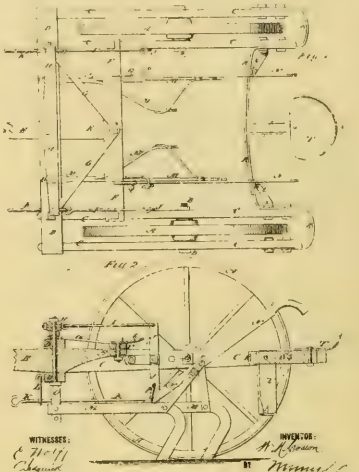
Witnesses:

Inventor

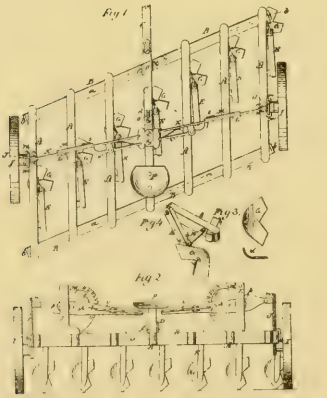
N. J. SKAGGS & L. W. TRUE
Combined Sulky-Plows and Cultivators.
No. 153,621 Patented July 28, 1874



W. M. COSTON
Sulky-Cultivators
No. 153,751 Patented Aug. 4, 1874



A. S. BAKER & W. H. LANDON.
Gang-Cultivators.
No. 154,001 Patented Aug. 11, 1874.



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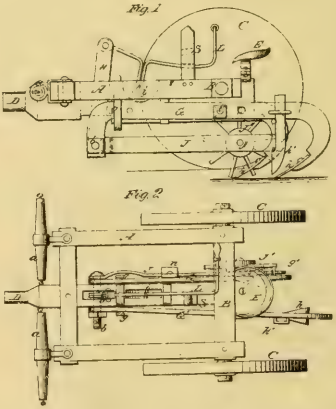
I. L. POLLARD.
Cultivators.
No. 154,081. Patented Aug. 11, 1874.

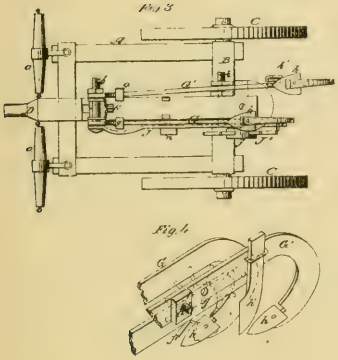


2 Sheets--Sheet 2

J. L. POLLARD.

Cultivators

No. 154,081. Patented Aug. 11, 1874

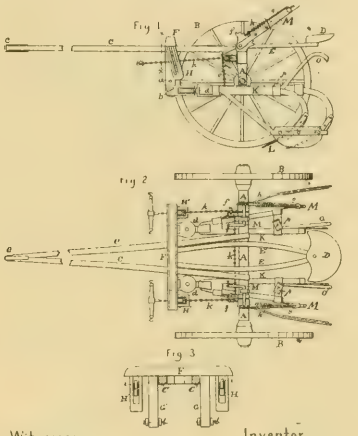


WITNESSES: Roger A. Upshaw, Robert Everitt. By INVENTOR John L. Pollard, A. Spencer Johnson & Co. ATTORNEYS

J. LUX.

Cultivators.

No. 154,404. Patented Aug. 25, 1874

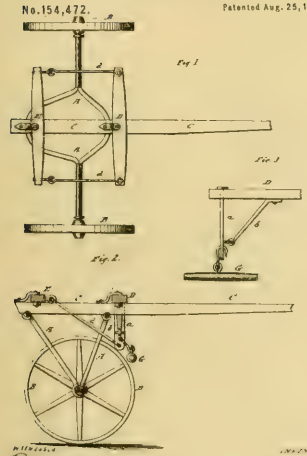


Witnesses: Ashbaniel, Robt. H. Evans. Inventor John Lux, by Louis Bagnall, Attorney.

V. K. GEORGE.

Eveners for Cultivators.

No. 154,472. Patented Aug. 25, 1874.



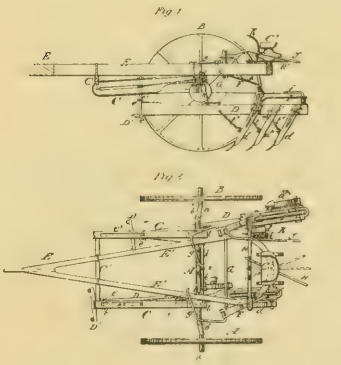
Witnesses: E. C. Ostrand, H. C. McArthur. INVENTOR V. K. George, per R. H. Ashbridge, ATTORNEY

2 Sheets--Sheet 1.

W. P. DALE.

Cultivators.

No. 154,586. Patented Sept. 1, 1874.



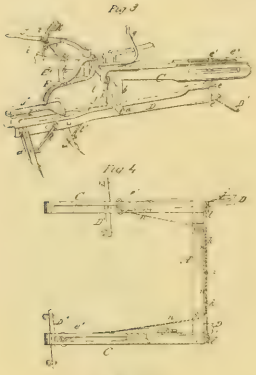
Witnesses: Roger A. Upshaw, Robert Everitt. Inventor Wm. P. Dale, A. Spencer Johnson & Co. Attys.

CULTIVATORS-WHEEL OR SULKY.

2 Sheets--Sheet 2.

W. P. DALE.
Cultivators.

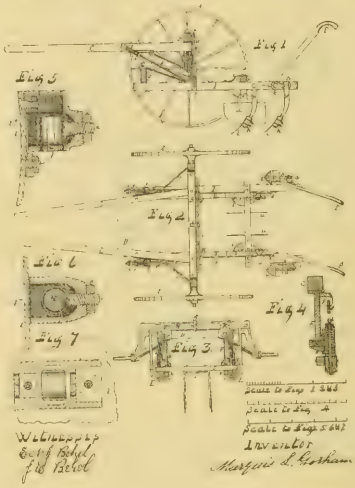
No. 154,586. Patented Sept. 1, 1874.



Witnesses
Inventor

M. L. GORHAM.
Cultivators.

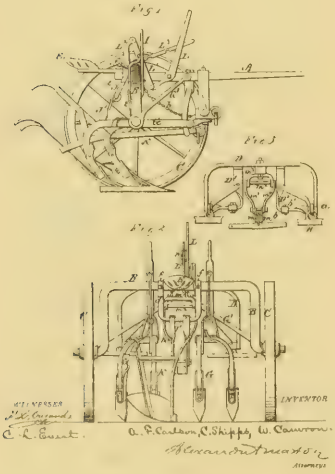
No. 154,666. Patented Sept. 1, 1874.



2 Sheets--Sheet 1.

A. F. CARLSON, C. SHIPPS & W. CAMRON.
Wheel Plows and Cultivators.

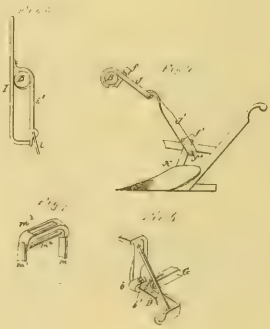
No. 154,835. Patented Sept. 8, 1874.



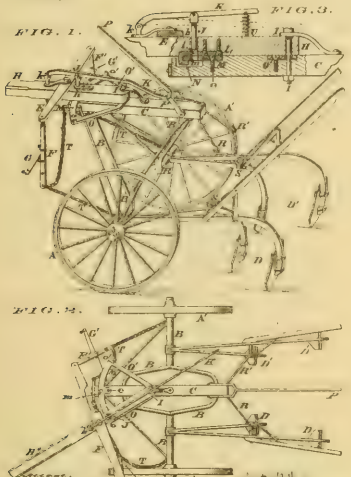
2 Sheets--Sheet 2.

A. F. CARLSON, C. SHIPPS & W. CAMRON.
Wheel Plows and Cultivators.

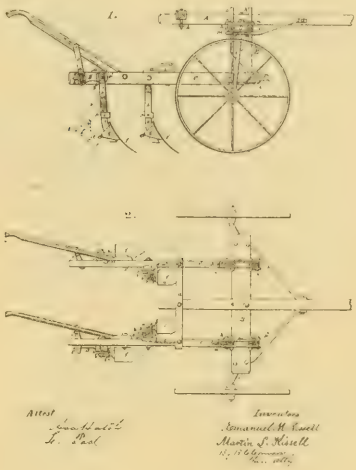
No. 154,835. Patented Sept. 8, 1874.



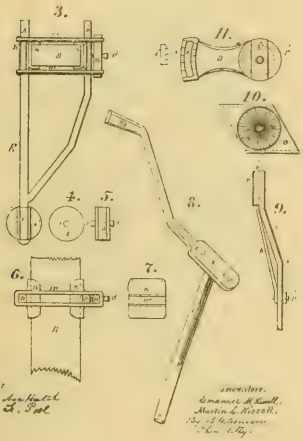
S. RUFFNER.
Cultivators.
No. 154,915. Patented Sept. 8, 1874.



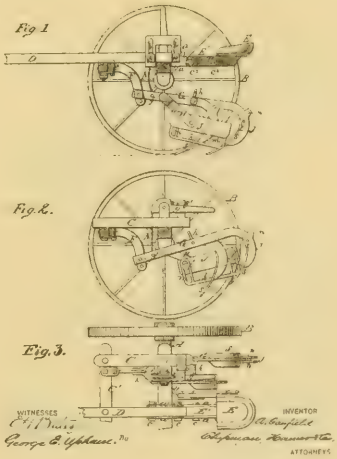
2 Sheets--Sheet 1.
E. M. & M. L. KISSELL.
Wheel Cultivators.
No. 155,159. Patented Sept. 22, 1874.



2 Sheets--Sheet 2
E. M. & M. L. KISSELL.
Wheel Cultivators.
No. 155,159. Patented Sept. 22, 1874.



2 Sheets--Sheet 1.
A. CANFIELD.
Corn-Cultivators.
No. 155,419. Patented Sept. 29, 1874.

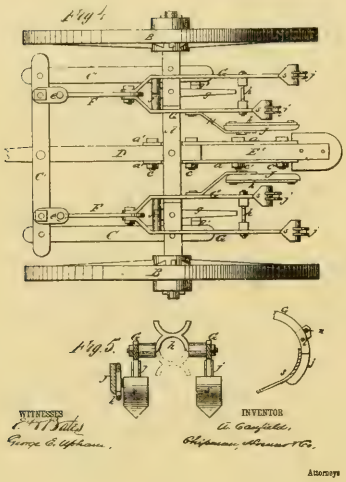


2 Sheets--Sheet 2

A. CANFIELD.

Corn-Cultivators.

No. 155,419. Patented Sept. 29, 1874.

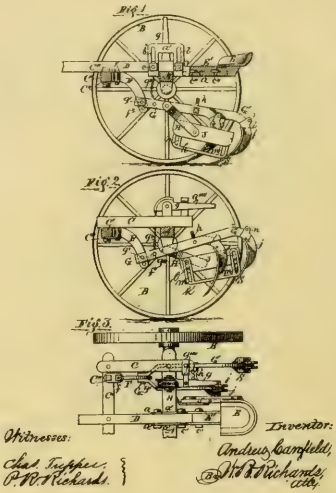


2 Sheets—Sheet 1

A. CANFIELD.

CORN-CULTIVATOR

No. 7,513. Reissued Feb. 20, 1877

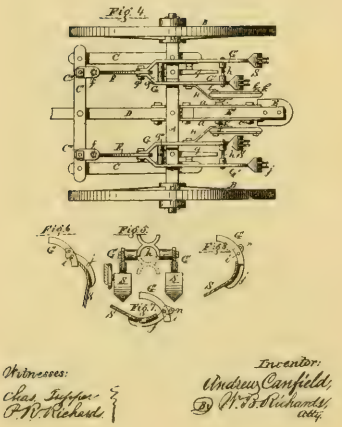


2 Sheets—Sheet 2.

A. CANFIELD.

CORN-CULTIVATOR.

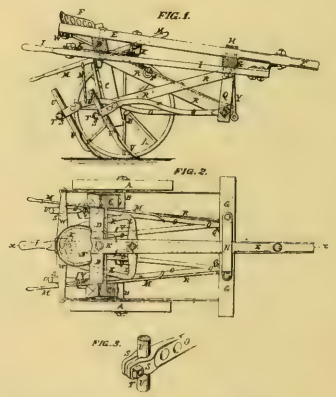
No. 7,513. Reissued Feb. 20, 1877.



E. I. ENO.

Cultivators.

No. 155,717. Patented Oct. 6, 1874.

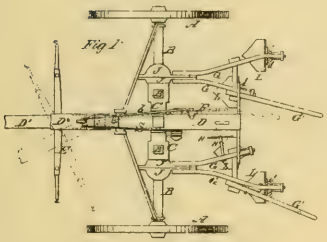


2 Sheets--Sheet 1.

T. F. VANDEGRIFT & W. VANDERGRIFT

Walking-Plows.

No. 155,905. Patented Oct. 13, 1874.



WITNESSES

Robert Everett,

H. C. H. Hollingshead

INVENTORS

T. F. Vandegrift

William Vandegrift

Chapman Brown & Co.

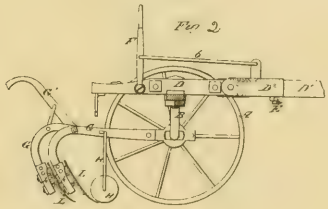
Attorneys

2 Sheets--Sheet 2

T. F. VANDEGRIFT & W. VANDERGRIFT

Walking-Plows.

No. 155,905. Patented Oct. 13, 1874



WITNESSES

Robert Everett,

H. C. H. Hollingshead

INVENTORS

T. F. Vandegrift

William Vandegrift

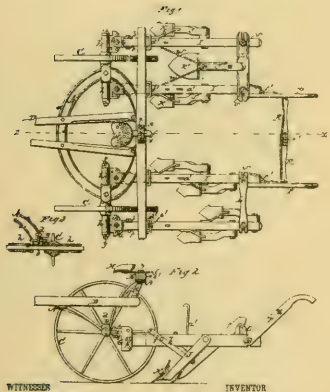
Chapman Brown & Co.

Attorneys

S. JONES.

Cultivators.

No. 155,956. Patented Oct. 13, 1874.



WITNESSES

Henry A. Miller

E. C. Smith

INVENTOR

Samuel Jones

per

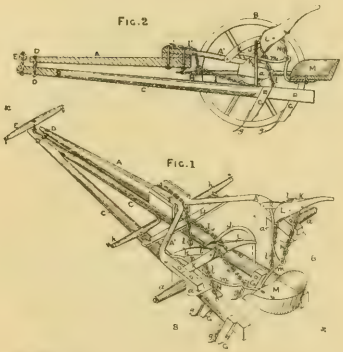
Edward Mundee

Attorneys

A. J. GOODRICH.

Cultivators.

No. 156,216. Patented Oct. 27, 1874.



Witnesses.

C. W. McCallum

H. Hinney

Inventor

Arthur J. Goodrich,

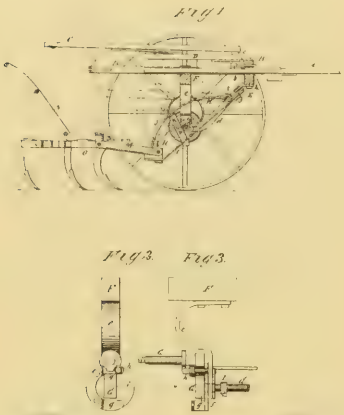
per Wm. H. Merrihew,

Atty

2 Sheets--Sheet 1.

J. M. HOLLADAY.
Double-Cultivators.

No. 157,603. Patented Dec. 8, 1874.



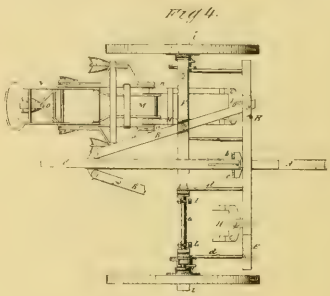
WITNESSES:
G. Matthews
Geo. Hanson

INVENTOR:
J. M. Holladay
BY
Wm. F. B.
ATTORNEYS.

2 Sheets--Sheet 2

J. M. HOLLADAY.
Double-Cultivators.

No. 157,603 Patented Dec. 8, 1874.

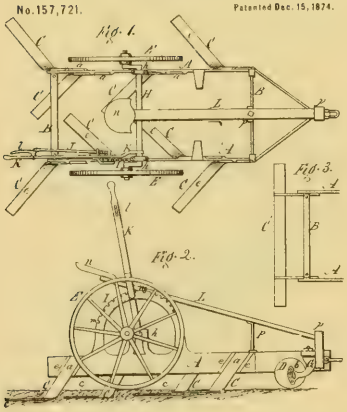


WITNESSES:
G. Matthews
Geo. Hanson

INVENTOR:
J. M. Holladay
BY
Wm. F. B.
ATTORNEYS.

W. P. MUNGER.
Cultivators.

No. 157,721. Patented Dec. 15, 1874.



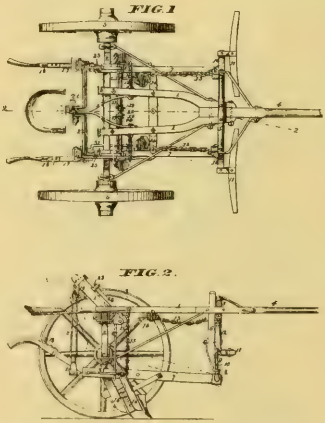
Witnesses.
Edwin B. Scott
Louis Spalon

Inventor:
Wm. P. Munger,
By R. T. Orford,
Atty.

2 Sheets--Sheet 1.

R. S. HIGGINS.
Cultivators.

No. 158,709. Patented Jan. 12, 1875.



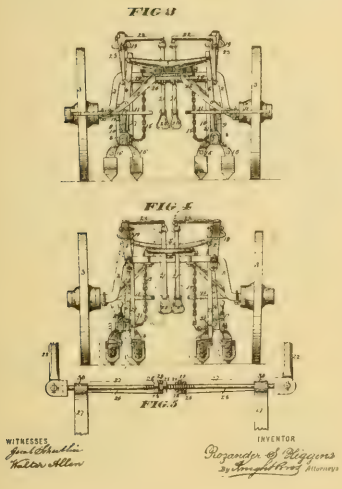
WITNESSES
Geo. Hamilton
Walter Allen

INVENTOR
Revanger S. Higgins
By Wright Brown & Quinby

2 Sheets--Sheet 2.

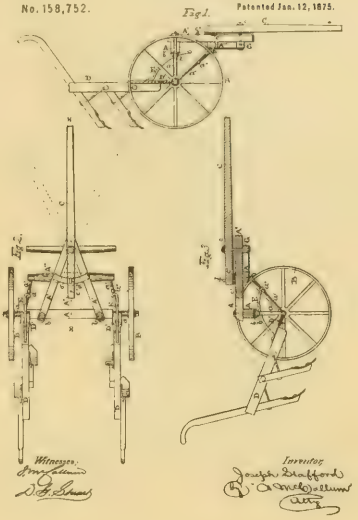
R. S. HIGGINS.
Cultivators.

No. 158,709. Patented Jan. 12, 1875.



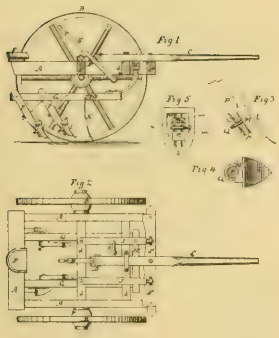
J. STAFFORD.
Wheel-Cultivators

No. 158,752. Patented Jan. 12, 1875.



E. CHILDREN.
Cultivator.

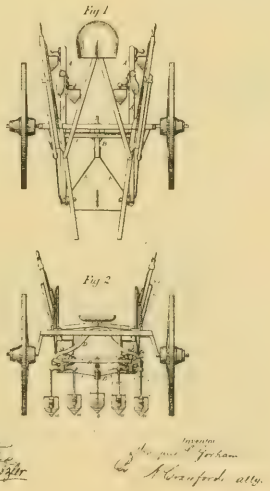
No. 159,500 Patented Feb. 9, 1875



2 Sheets--Sheet 1.

N. L. GORHAM.
Cultivator.

No. 159,507 Patented Feb. 9, 1875.

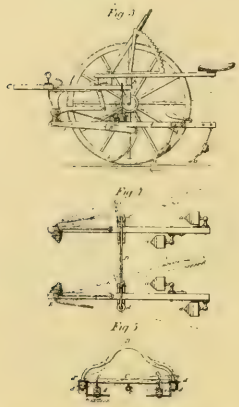


2 Sheets--Sheet 2.

M. L. GORHAM.

Cultivator.

No. 159,507. Patented Feb. 9, 1875.



Witnesses: J. Mason Gaylor

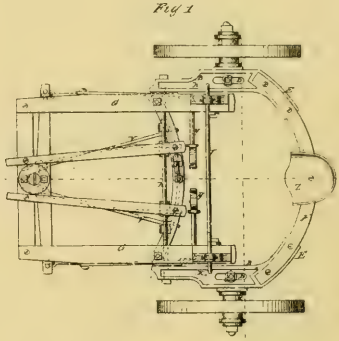
Inventor: Milo Lafayette Gorham by A. McCrawford Atty

2 Sheets--Sheet 1.

G. S., G. W. & E. A. BROWER.

Wheel-Cultivator.

No. 159,560 Patented Feb. 9, 1875.



WITNESSES: E. Wolff, A. J. Tony

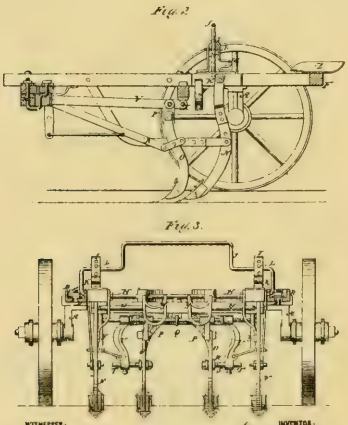
INVENTOR: Geo. S. Brower, Geo. W. Brower, E. A. Brower, By Munn & Co. ATTORNEYS.

2 Sheets--Sheet 2.

G. S., G. W. & E. A. BROWER.

Wheel-Cultivator.

No. 159,560. Patented Feb. 9, 1875.



WITNESSES: E. Wolff, A. J. Tony

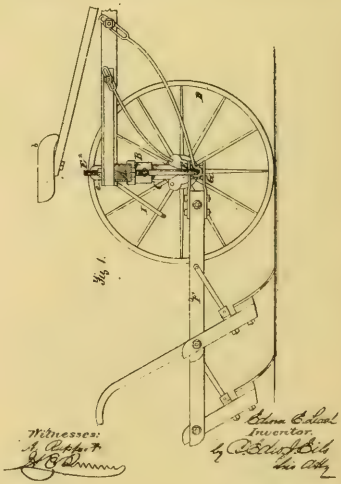
INVENTOR: Geo. S. Brower, Geo. W. Brower, E. A. Brower, By Munn & Co. ATTORNEYS.

2 Sheets--Sheet 1

E. E. LEACH.

Wheel-Cultivator.

No. 159,689 Patented Feb. 9, 1875.



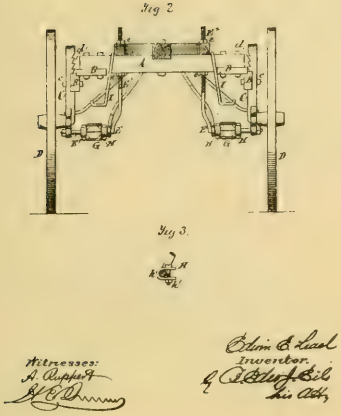
Witnesses: H. Ritter, H. B. Brown

Inventor: Edwin E. Leach by R. B. Duff & Bro his Attys

2 Sheets--Sheet 2

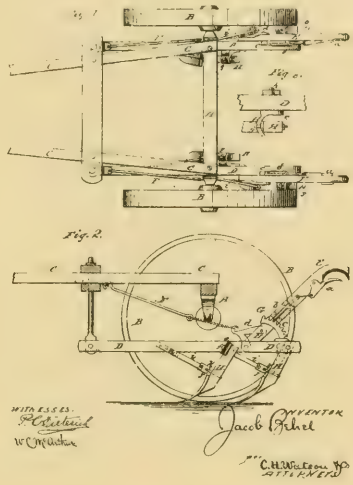
E. E. LEACH.
Wheel-Cultivator.

No. 159,689 Patented Feb. 9, 1875.



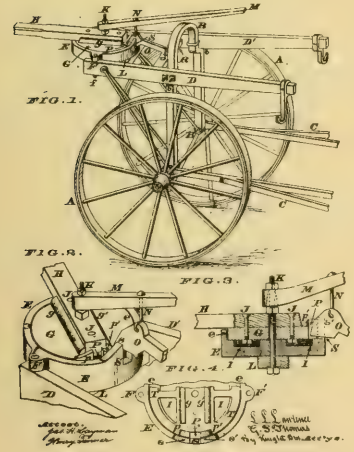
J. BEHEL
Cultivator

No. 160,142 Patented Feb. 23, 1875



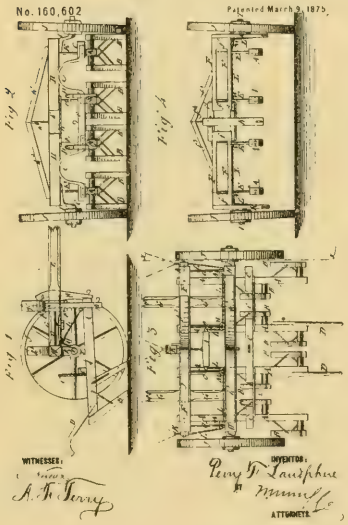
L. L. LAWRENCE & G. S. THOMAS.
Cultivator.

No. 160,210 Patented Feb. 23, 1875.



P. F. LANDPHERE.
Cultivator.

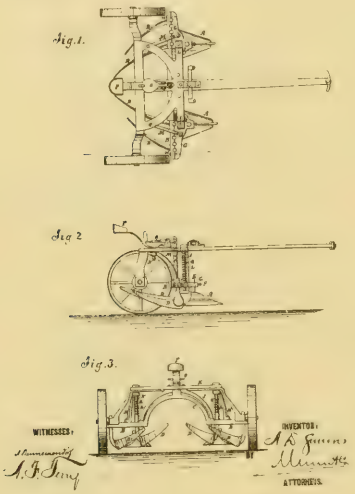
No. 160,602 Patented March 9, 1875.



A. D. SIMONS.

Combined Horse-Hoe and Plow.

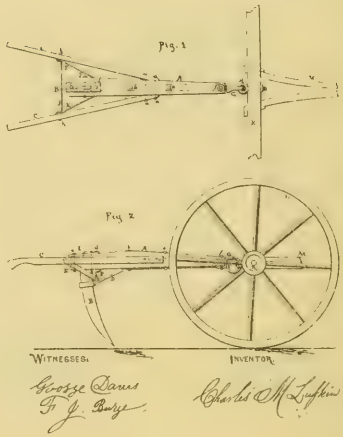
No. 160,621 Patented March 9, 1875.



C. M. LUFKIN.

Machine for Digging Stones, Stumps, Roots, &c

No. 161,047 Patented March 23, 1875

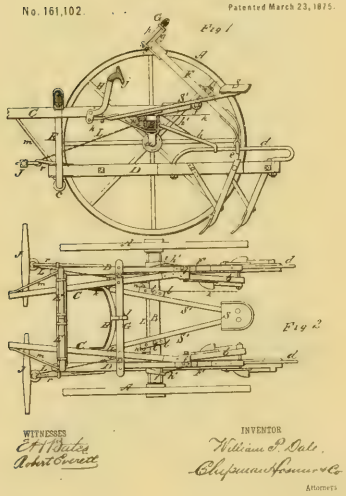


2 Sheets--Sheet 1.

W. P. DALE.

Wheel-Cultivator.

No. 161,102. Patented March 23, 1875.

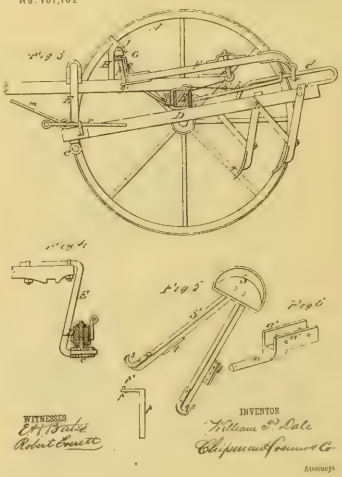


2 Sheets--Sheet 2.

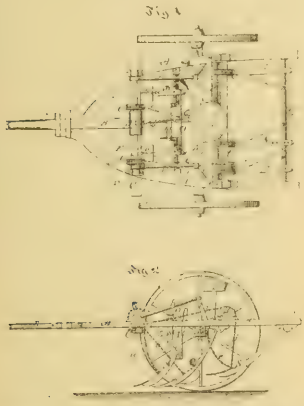
W. P. DALE.

Wheel-Cultivator.

No. 161,102 Patented March 23, 1875

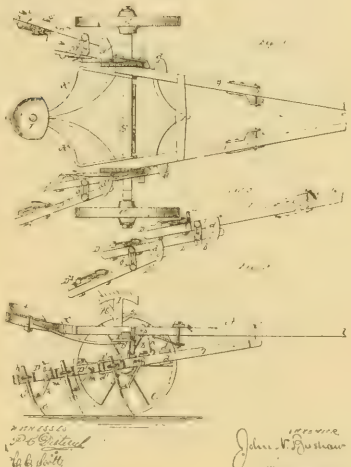


W. CLEMENTS.
Combined Gang Plow and Cultivator.
No 151 592. Patented April 6, 1875.



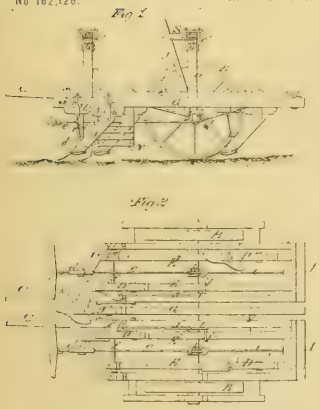
Witnesses.
Inventor
W. Clements
By Atty

J. N. BASHAW.
Cultivator.
No 161,855 Patented April 11 1875.

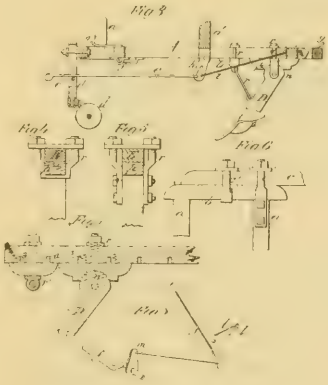


Witnesses
Inventor
John N. Bashaw
By Atty

3 Sheets--Sheet 1.
L. W. TRUE.
Sulky Plow.
No 162,126. Patented April 13 1875.



3 Sheets--Sheet 2
L. W. TRUE.
Sulky-Plow.
No 162,126 Patented April 13, 1875



3 Sheets--Sheet 3.

L. W. TRUE.
Sulky-Plow.

No. 162,126 Patented April 13, 1875.

Fig. 9.

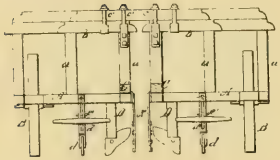
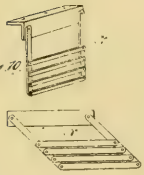


Fig. 10.



WITNESSES.
C. F. Bates
Geo. E. Howe.

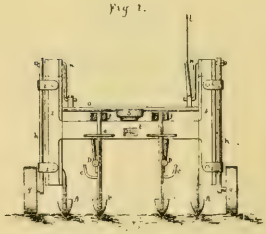
INVENTOR
Levings & Sons
Chapman & Forman
ATTORNEYS

2 Sheets--Sheet 1

C. L. CARTER
Plow.

No. 162,151 Patented April 20, 1875.

Fig. 1.



WITNESSES.
W. H. Carter
J. Carter

INVENTOR
Clement L. Carter

2 Sheets--Sheet 2

C. L. CARTER.
Plow.

No. 162,151 Patented April 20, 1875.

Fig. 2

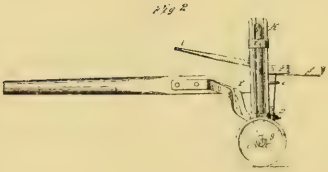
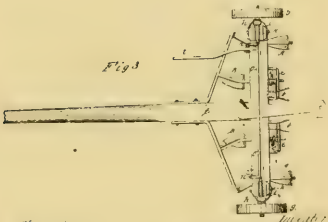


Fig. 3



Witnesses:
W. H. Carter
J. Carter

Inventor:
Clement L. Carter

A. B. COLVER.
Cultivator.

No. 162,273 Patented April 20, 1875.

Fig. 1.

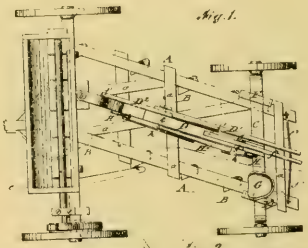
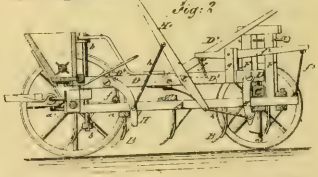


Fig. 2.



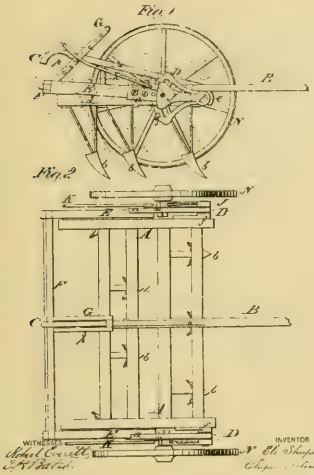
WITNESSES:
Chas. Nida
A. H. Terry

INVENTOR:
A. B. Colver
BY
Munn & Co
ATTORNEYS.

2 Sheets--Sheet 1

E. SHUPE.
Cultivator

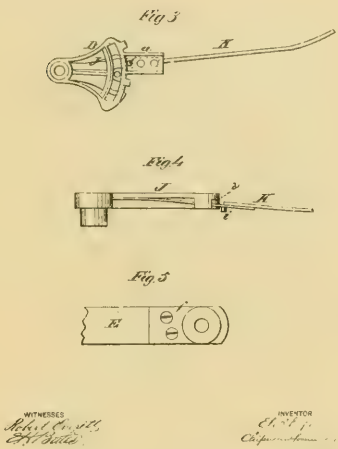
No. 162,700. Patented April 27, 1875.



2 Sheets--Sheet 2

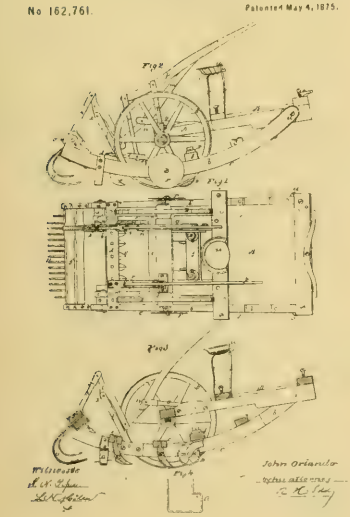
E. SHUPE.
Cultivator.

No. 162,700. Patented April 27, 1875.



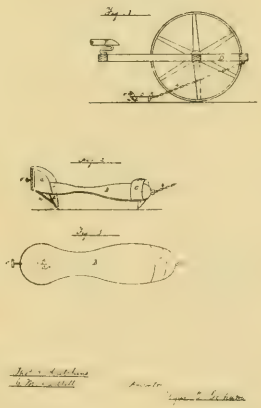
J. ORLANDO
Strawberry-Cultivator.

No. 162,761. Patented May 4, 1875.

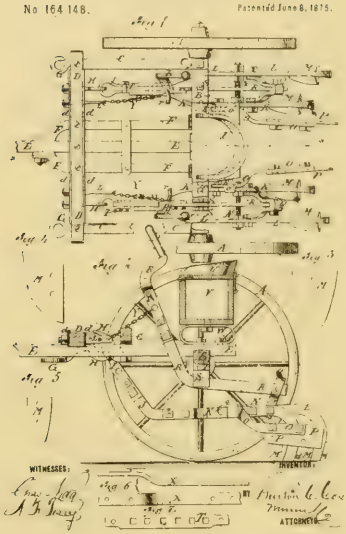


E. D. GORHAM.
Cultivator.

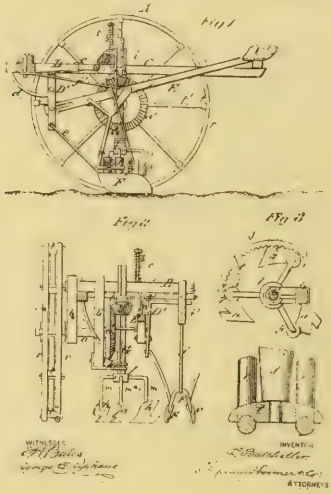
No. 163,372 Patented May 18, 1875.



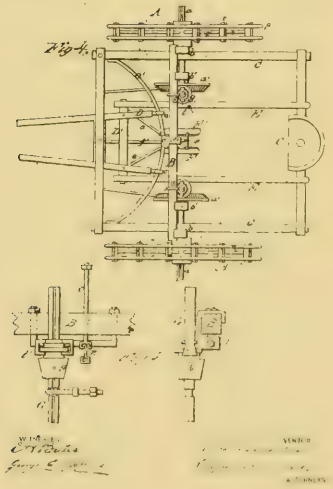
B. C. COX.
Sulky Cultivator.
No. 164,148. Patented June 8, 1875.



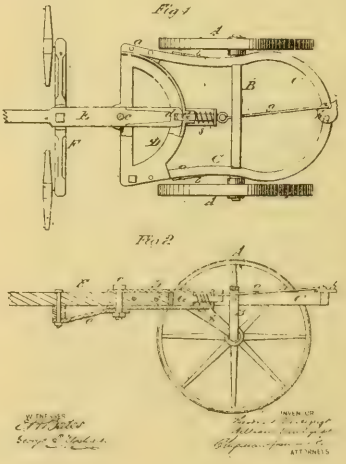
A. F. BATCHELLER.
Corn-Cultivator.
No. 164,960. 2 Sheets--Sheet 1. Patented June 29, 1875.



A. F. BATCHELLER.
Corn-Cultivator.
No. 164,960. 2 Sheets--Sheet 2. Patented June 29, 1875.

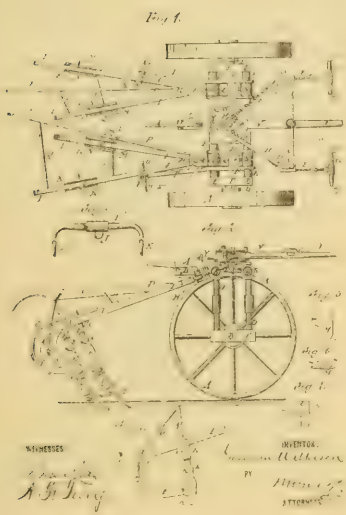


T. F. & W. VANDEGRIFT.
Cultivator.
No. 165,136. Patented June 29, 1875.



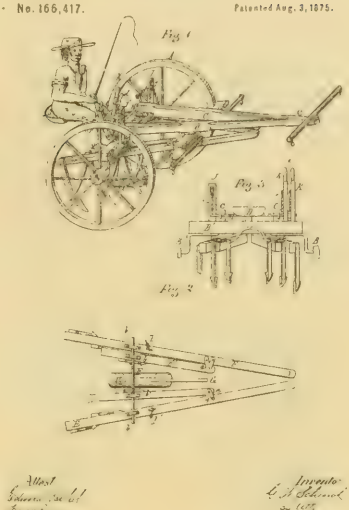
G. WILKINSON.
Cultivator.

No 166,050 Patented July 27, 1875.



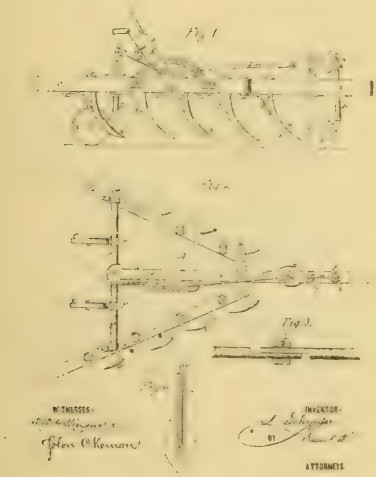
G. W. SCHENCK.
Wheel Cultivators.

No. 166,417. Patented Aug. 3, 1875.



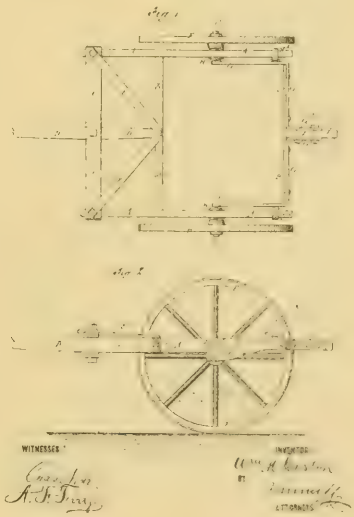
A. SCHRADER.
Cultivator.

No. 166,636. Patented Aug. 10, 1875.

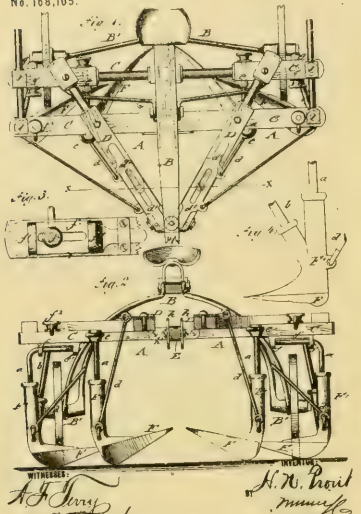


W. M. COSTON.
Cultivator Frame.

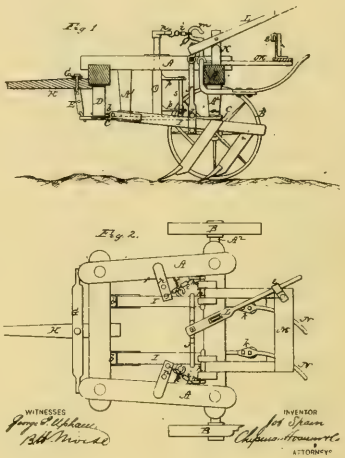
No. 167,226. Patented Aug. 31, 1875.



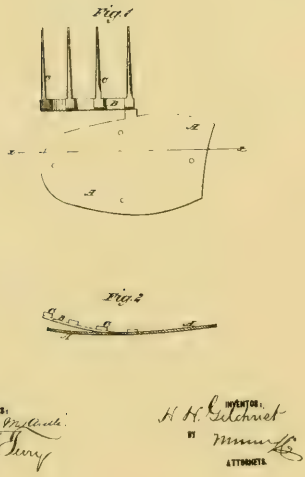
H. N. PROUT.
Hoeing-Machine.
No. 168,105. Patented Sept. 28, 1875.



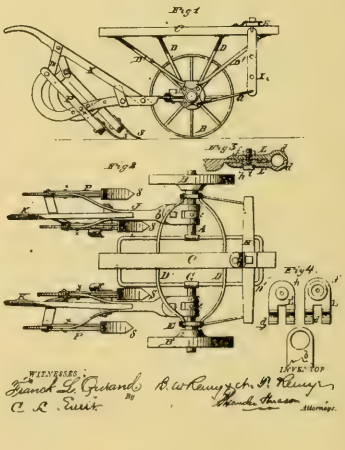
J. SPAIN.
Sulky-Cultivator.
No. 168,537. Patented Oct. 5, 1875.



H. H. GILCHRIST.
CORN-UNCOVERER.
No. 175,726. Patented Dec. 7, 1875.

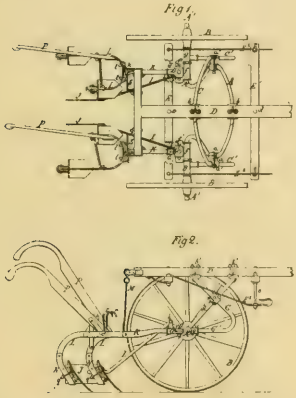


B. W. & N. T. REMY.
WHEEL-CULTIVATOR.
No. 172,775. Patented Jan. 25, 1876.



2 Sheets—Sheet 1.

E. WIARD.
WHEEL CULTIVATOR.
No. 173,747. Patented Feb. 22, 1876.

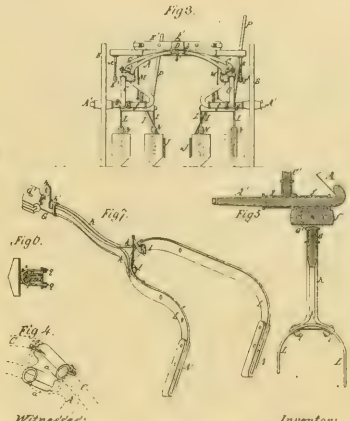


Witnesses:
J. H. Chadwick Lang
Jno. J. Slater.

Inventor:
Edward Wiard.
by
Albert Fennock Hanmer
Atty.

2 Sheets—Sheet 2.

E. WIARD.
WHEEL CULTIVATOR
No. 173,747. Patented Feb. 22, 1876.

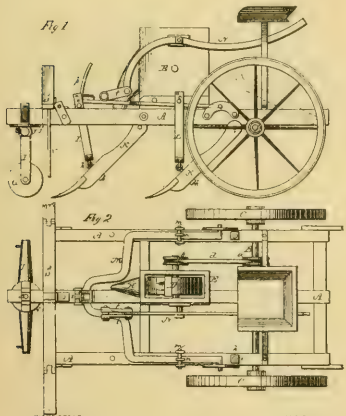


Witnesses:
J. H. Chadwick Lang.
Jno. J. Slater.

Inventor:
Edward Wiard,
by
Albert Fennock Hanmer
Atty.

3 Sheets—Sheet 1.

C. J. SEABROOK & H. HEINE.
COMBINED SEED-PLANTER AND CULTIVATOR.
No. 174,013. Patented Feb. 22, 1876.

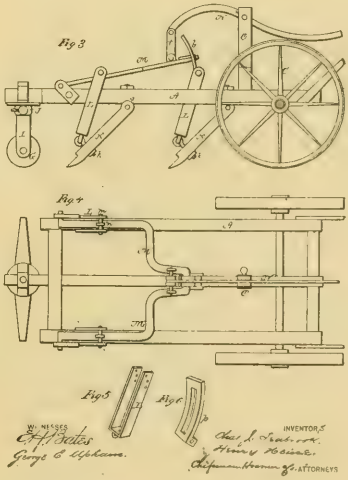


WITNESSES,
C. H. Bates
Adolf Everitt
by

INVENTORS,
Chas. J. Seabrook
Henry Heine
Chipman Hanmer & Co. Attorneys

3 Sheets—Sheet 2.

C. J. SEABROOK & H. HEINE.
COMBINED SEED-PLANTER AND CULTIVATOR.
No. 174,013. Patented Feb. 22, 1876.

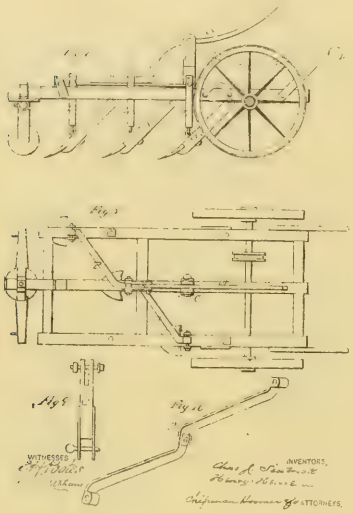


WITNESSES
C. H. Bates
George E. Upham.

INVENTORS
Chas. J. Seabrook.
Henry Heine.
Chipman Hanmer & Co. ATTORNEYS

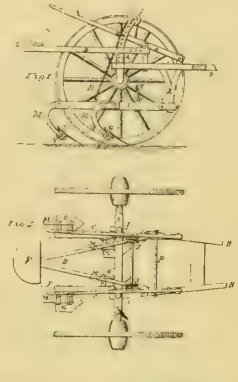
2 Sheets—Sheet 2.

C. J. SEABROOK & H. HEINE.
COMBINED SEED-PLANTER AND CULTIVATOR.
No. 174,613. Patented Feb. 22, 1876



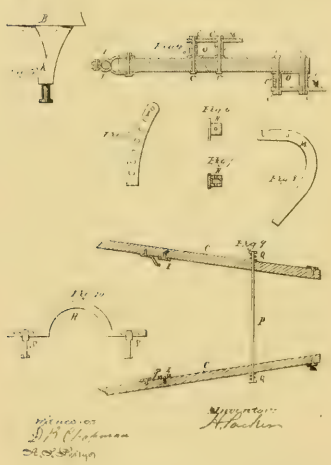
2 Sheets—Sheet 1.

H. PACKER.
CULTIVATOR.
No. 174,563 Patented March 7, 1876



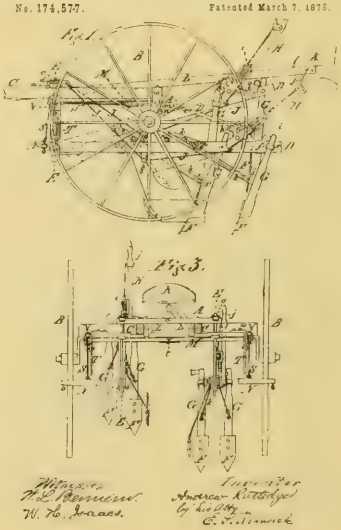
2 Sheets—Sheet 2.

H. PACKER.
CULTIVATOR.
No. 174,563. Patented March 7, 1876.



2 Sheets—Sheet 1.

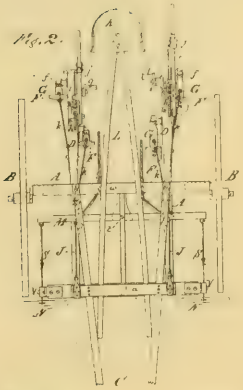
A. RUTLEDGE.
CULTIVATOR.
No. 174,577. Patented March 7, 1876.



2 Sheets—Sheet 2.

A. PUTLEDGE.
CULTIVATOR.
Patented March 7, 1876.

No. 174,577.



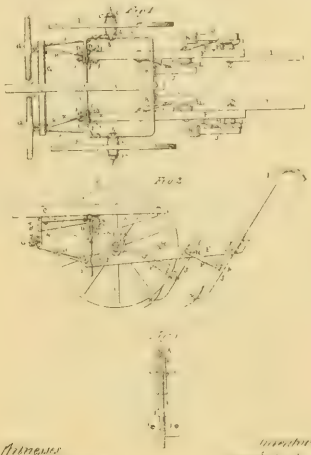
Witnesses
H. L. Bennett
W. H. Jones

Inventor
Andrew Putledge
By his att'y
C. F. Kenrick

2 Sheets—Sheet

J. C. LEIDY.
CULTIVATOR.
Patented March 14, 1876.

No. 174,686.



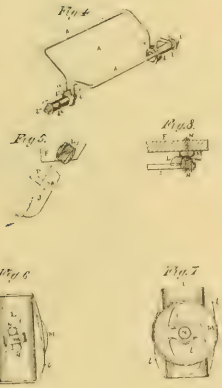
Witnesses
F. Chas. Duncan
D. Gifford

Inventor

2 Sheets—Sheet 2.

J. C. LEIDY.
CULTIVATOR.
Patented March 14, 1876.

No. 174,686.



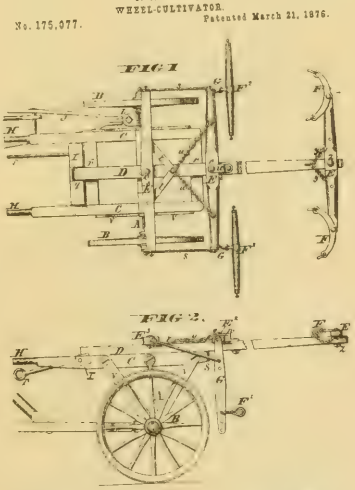
Witnesses
F. Chas. Duncan
D. Gifford

Inventor

4 Sheets—Sheet 1.

O. C. GREEN.
WHEEL-CULTIVATOR.
Patented March 21, 1876.

No. 175,077.

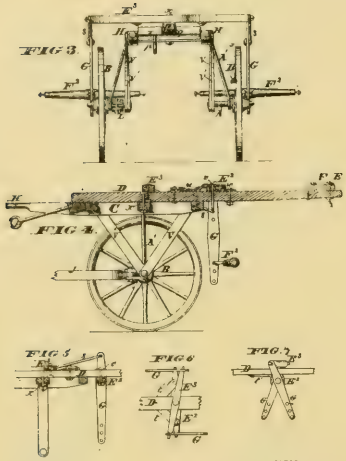


WITNESSES
H. H. Pearce

INVENTOR
Oliver C. Green

4 Sheets—Sheet 2

C. C. GREEN.
WHEEL-CULTIVATOR.
No. 175,077. Patented March 21, 1876.

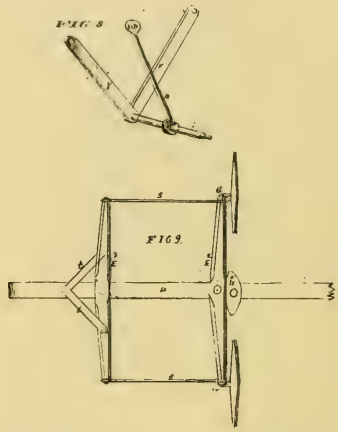


WITNESSES
W. H. Pearce
Hay Turner

INVENTOR
Oliver C. Green
By Knight Bros. Attorneys

4 Sheets—Sheet 3

O. C. GREEN
WHEEL-CULTIVATOR
No. 175 077 Patented March 21

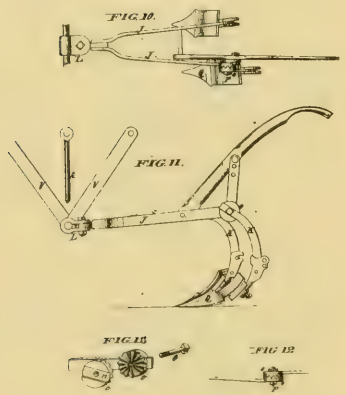


WITNESSES
Chas. J. Brook
L. Blond Burdett

INVENTOR
Oliver C. Green
By Knight Bros

4 Sheets—Sheet 4.

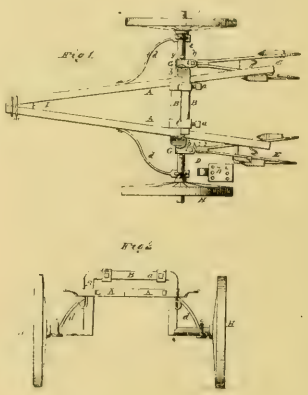
C. C. GREEN.
WHEEL-CULTIVATOR.
No. 175,077. Patented March 21, 1876.



WITNESSES
Chas. J. Brook
L. Blond Burdett

INVENTOR
Oliver C. Green
By Knight Bros Attorneys

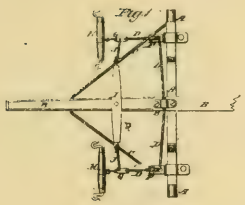
W. A. VAN CAM
DOUBLE CORN-PLOW.
No. 175,212. Patented March 21, 1876



WITNESSES
Robert L. Ostrand
G. K. Fenton

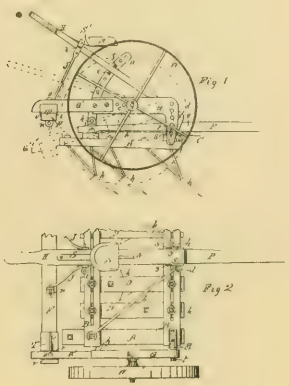
INVENTOR
W. A. Van Cam
Alexander Mitchell
Attorney

A. MEHARRY.
DRAFT-EQUALIZER.
No. 175,370. Patented March 28, 1876.



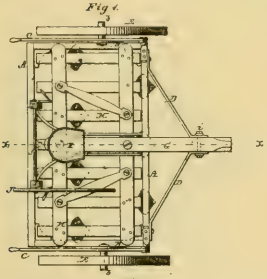
WITNESSES: Francis McCardle, A. F. Terry
INVENTOR: Alexander Meharry, By Munn & Co., ATTORNEYS.

L. P. THOMPSON.
CULTIVATOR.
No. 175,392. Patented March 29, 1876.



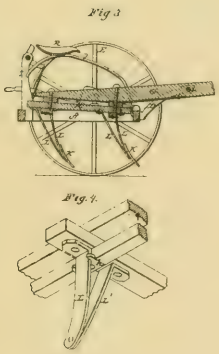
Witnesses: L. B. Rowley, Henry C. White
Inventor: L. P. Thompson, By Geo. Geoghegan, Atty.

2 Sheets—Sheet 1.
J. A. ADAMS.
CULTIVATOR.
No. 175,636. Patented April 4, 1876.



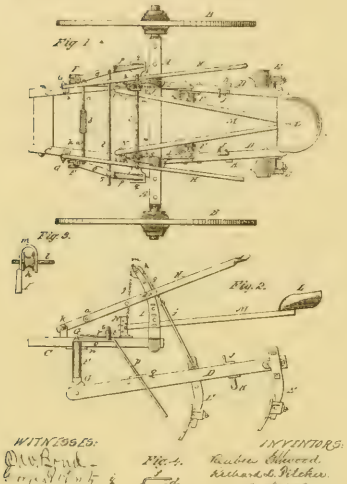
WITNESSES: Henry A. Miller, A. R. Tuck
INVENTOR: John A. Adams, By Munn & Co., Attorneys.

2 Sheets—Sheet 2.
J. A. ADAMS.
CULTIVATOR.
No. 175,636. Patented April 4, 1876.

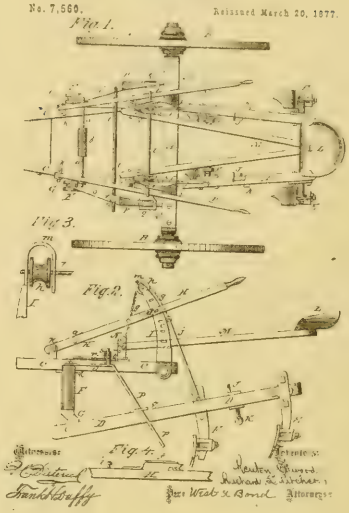


WITNESSES: Henry A. Miller, A. R. Tuck
INVENTOR: John A. Adams, By Munn & Co., Attorneys.

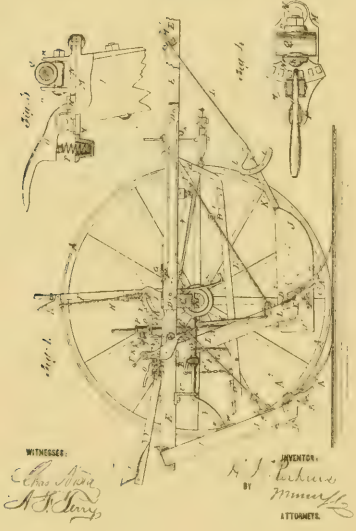
R. ELLWOOD & R. L. PITCHER.
CULTIVATOR.
No. 177,063 Patented May 9, 1876.



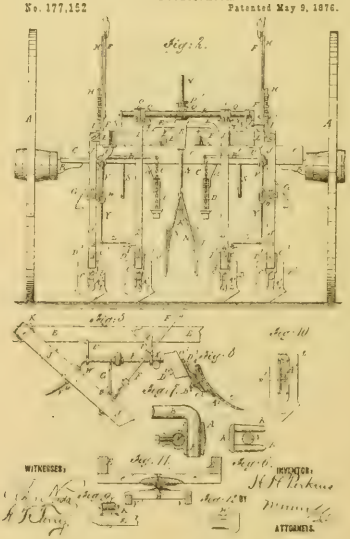
R. ELLWOOD & R. L. PITCHER.
Said Pitcher assignor to said Ellwood.
CULTIVATOR.
No. 7,560. Reissued March 20, 1877.



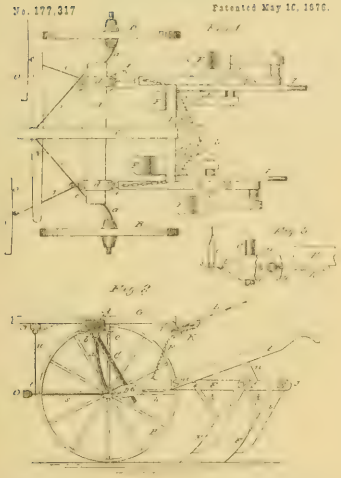
2 Sheets—Sheet 1.
H. H. PERKINS.
WHEEL-CULTIVATOR.
No. 177,152 Patented May 9, 1876.



2 Sheets—Sheet 2.
H. H. PERKINS.
WHEEL-CULTIVATOR.
No. 177,152 Patented May 9, 1876.



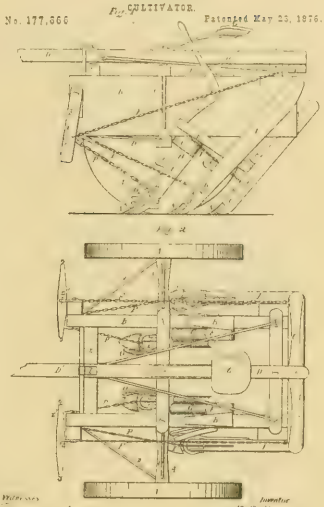
G. BARCAFER.
CULTIVATOR.
No. 177,317 Patented May 16, 1876.



WITNESSES.
Jos. S. Triplett.
C. A. Burnett

INVENTOR.
Glaucus Barcafer
per Charles H. Fowler
Attorney.

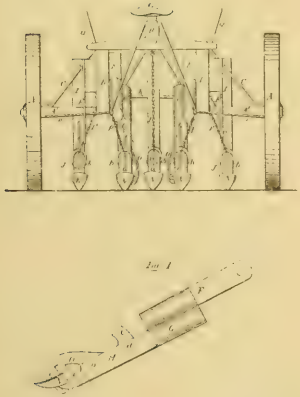
2 Sheets—Sheet 1.
D. C. TANNER.
CULTIVATOR.
No. 177,666 Patented May 23, 1876.



Witnesses
E. W. Brown
E. W. Kemes

Inventor
D. C. Tanner
Per Burridge & Co.
Attys.

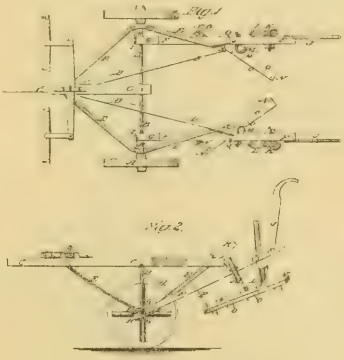
2 Sheets—Sheet 2.
D. C. TANNER.
CULTIVATOR.
No. 177,666 Patented May 23, 1876.



Witnesses
E. W. Brown
Geo. H. Kemes

Inventor
D. C. Tanner
Per Burridge & Co.
Attys.

H. BUTNER.
COMBINED HARROW AND CULTIVATOR.
No. 177,685. Patented May 23, 1876.



WITNESSES:
Francis J. McCarth.
John Gerthels

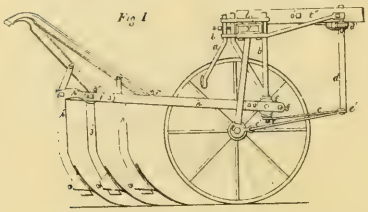
INVENTOR:
H. Butner
BY
Munn & Co.
ATTORNEYS

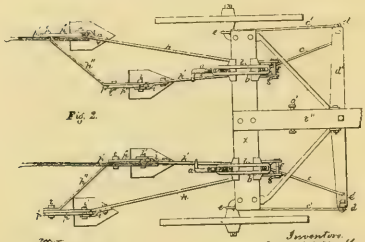
2 Sheets—Sheet 1.

E. M. & M. L. KISSELL.

WHEEL CULTIVATOR.

No. 177,853. Patented May 23, 1876.





Witnesses.
Ms McGowan
E. W. Kay

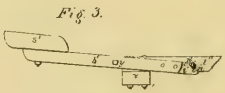
Inventors.
Emanuel M. Kissell
Martin L. Kissell
By W. H. Simmons Atty.

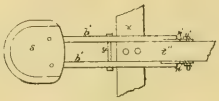
2 Sheets—Sheet 2.

E. M. & M. L. KISSELL.

WHEEL CULTIVATOR.

No. 177,853. Patented May 23, 1876.





Witnesses.
Ms McGowan
E. W. Kay

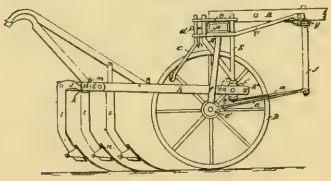
Inventors.
Emanuel M. Kissell
Martin L. Kissell
By W. H. Simmons Atty.

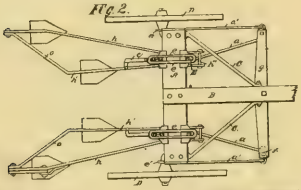
2 Sheets—Sheet 1.

E. M. & M. L. KISSELL.

WHEEL-CULTIVATORS.

No. 7,833. Reissued Aug. 7, 1877.





Witnesses.
Chas M. Peck
Wm Ritchie

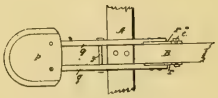
Inventors.
Emanuel M. Kissell
Martin L. Kissell
by their Attys
Peck & Co.

2 Sheets—Sheet 2

E. M. & M. L. KISSELL.

WHEEL-CULTIVATORS.

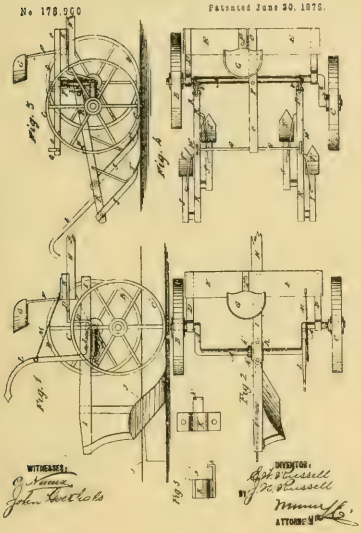
No. 7,833. Reissued Aug. 7, 1877



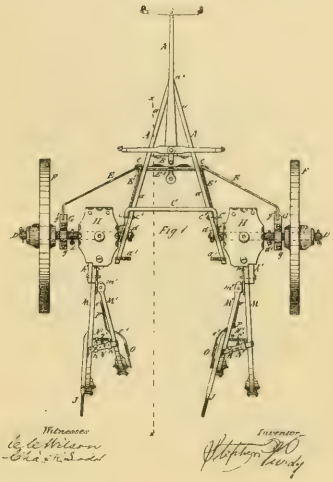
Witnesses.
Chas M. Peck
Wm Ritchie

Inventors.
Emanuel M. Kissell
Martin L. Kissell
by their Attys
Peck & Co.

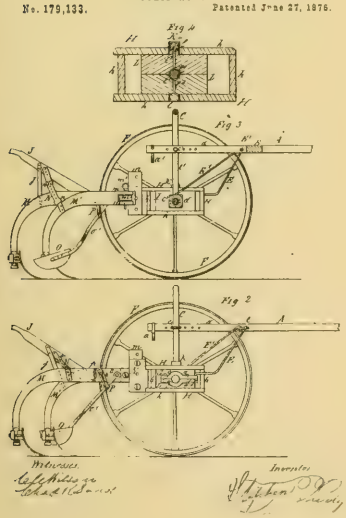
E. W. & J. N. RUSSELL.
CULKY-PLOW AND CULTIVATOR.
No. 176,960 Patented June 30, 1876.



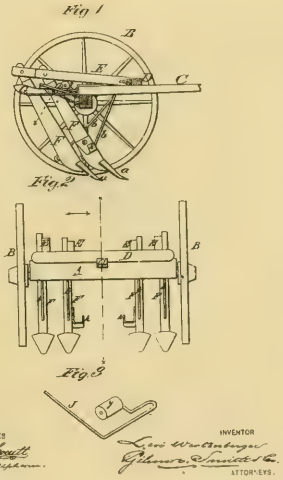
2 Sheets—Sheet 1.
S. PURDY.
CULTIVATOR.
No. 179,133. Patented June 27, 1876.



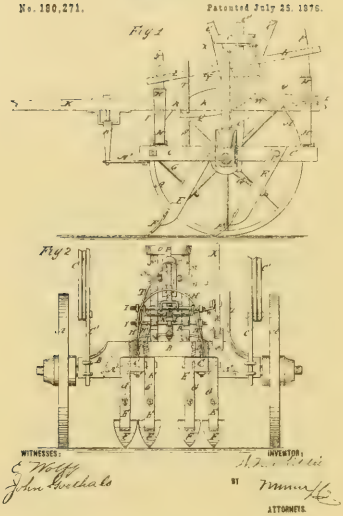
2 Sheets—Sheet 2.
S. PURDY.
CULTIVATOR.
No. 179,133. Patented June 27, 1876.



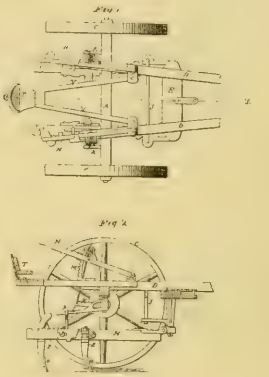
L. WERTENBERGER.
SULKY-PLOW.
No. 179,378. Patented June 27, 1876.



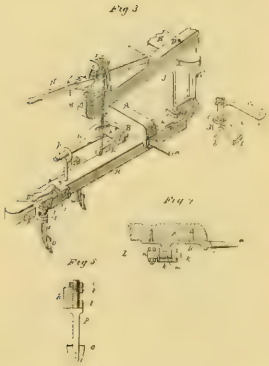
W. N. RIDDLE.
WHEEL CULTIVATORS.
No. 180,271. Patented July 25, 1876.



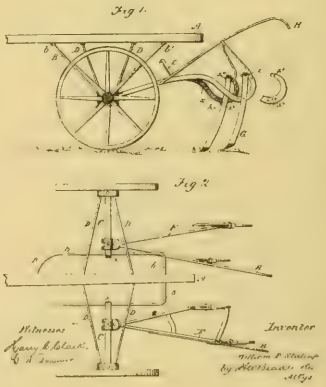
2 Sheets—Sheet 1.
S. A. BUCHANAN.
SULKY CULTIVATOR
No. 180,319. Patented July 25, 1876.



2 Sheets—Sheet 2.
S. A. BUCHANAN.
SULKY CULTIVATOR.
No. 180,319. Patented July 25, 1876.



2 Sheets—Sheet 1.
W. P. STALCUP.
CULTIVATOR.
No. 180,438. Patented Aug. 1, 1876.

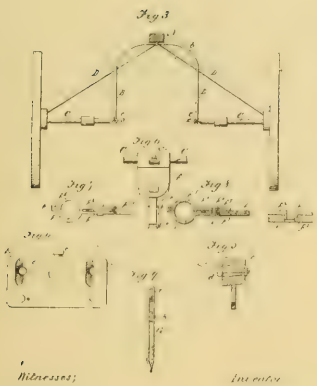


2 Sheets—Sheet 2

W. P. STALCUP.

CULTIVATOR

No. 180,438. Patented Aug 1 1876



Witnesses;
Harry C. Black
James J. Dailey

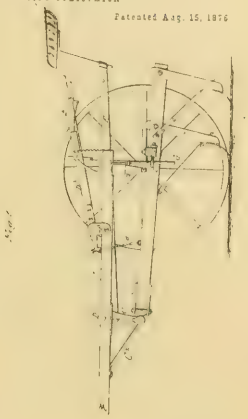
Inventor
William P. Stalcup
by H. C. Black & Co
Attys

2 Sheets—Sheet 1

G. BRADLEY.

CORN-CULTIVATOR

No. 180,987. Patented Aug. 15, 1876



Witnesses
W. H. Dorsey
N. C. Jackson

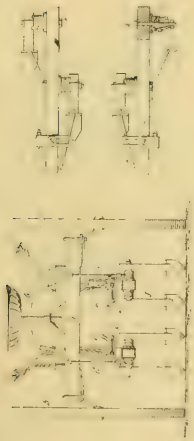
Inventor
George Bradley
by Geo. Bird attorney
by J. A. Wheeler
Attorney

2 Sheets—Sheet 2

G. BRADLEY.

CORN-CULTIVATOR

No. 180,987. Patented Aug. 15, 1876



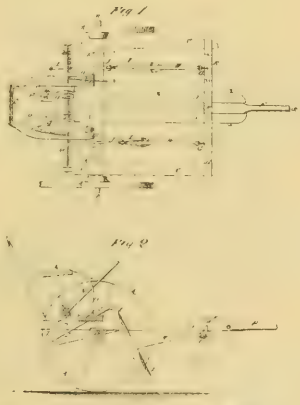
Witnesses
W. H. Dorsey
N. C. Martin

Inventor
George Bradley
by Geo. Bird attorney
by J. A. Wheeler
Attorney

A. HAMILTON.

SULKY PLOW

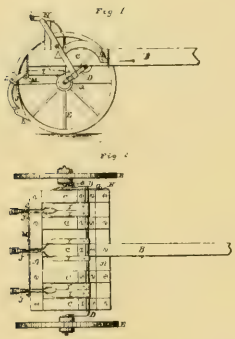
No. 181,000 Patented Aug. 15, 1876



WITNESSES:
Geo. Bird
John Gerlach

INVENTOR:
A. Hamilton
BY Munn & Co.
ATTORNEYS.

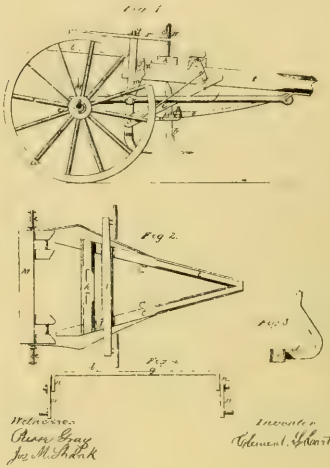
W. J. ROBERTSON.
PRAIRIE SOD-CULTIVATOR
No. 181,106. Patented Aug. 15, 1876.



WITNESSES.
J. W. Grover
F. M. Burnham

INVENTOR.
W. J. Robertson
per atty

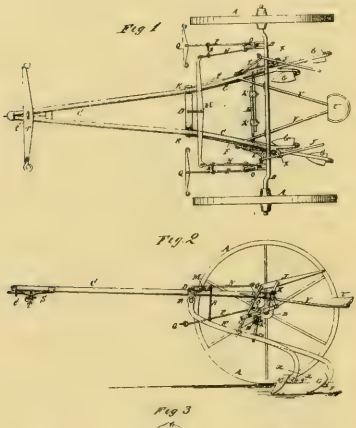
C. L. CARTER.
CULTIVATOR
No. 181,245 Patented Aug. 22, 1876



Witnesses
Percy Gray
Jos. M. Pedrick

Inventor
Clement L. Carter

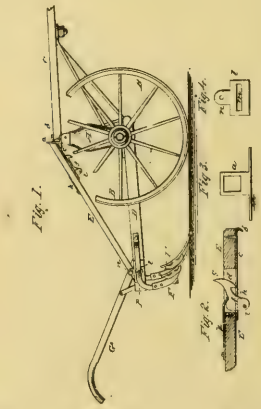
J. C. BANNIGAN.
CULTIVATOR.
No. 181,302. Patented Aug. 22, 1876.



WITNESSES:
A. W. Hungerford
John Greenhalgh

INVENTOR:
J. C. Bannigan
per
Munn & Co
ATTORNEYS.

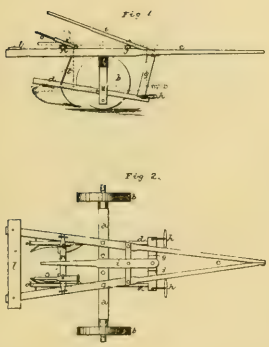
D. C. STOVER.
CULTIVATORS.
No. 181,494. Patented Aug. 22, 1876.



Witnesses:
A. W. Bond.
E. J. Bond.

Inventor
Daniel C. Stover
Per: Geo. H. Bond Attorney.

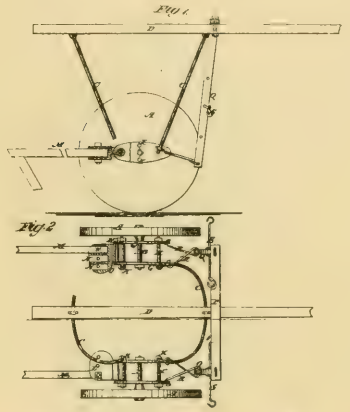
T. J. JONES.
CULTIVATOR.
No. 181,944. Patent Sept. 5, 1876.



WITNESSES.
J. W. Garner
F. H. Bonham

INVENTOR.
Thos J. Jones
per
F. O. Schumann, Atty

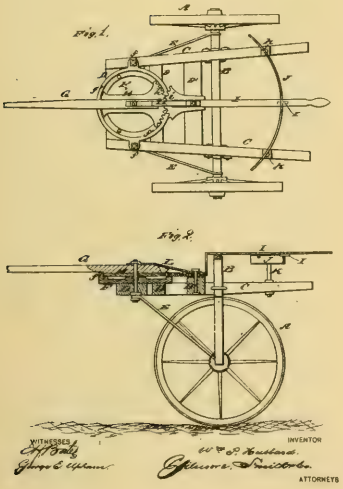
T. R. WALLIS.
WHEEL-CULTIVATOR.
No. 182,138. Patented Sept. 12, 1876.



WITNESSES:
Thomas Parsons
John Gethals

INVENTOR:
T. R. Wallis
BY
ATTORNEYS

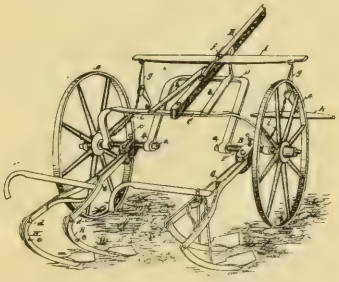
W. P. HUBBARD.
WHEEL-CULTIVATOR.
No. 182,443. Patented Sept. 19, 1876.



WITNESSES
C. F. Daly
Geo. E. Upham

INVENTOR
W. P. Hubbard
Glover & Swinton
ATTORNEYS

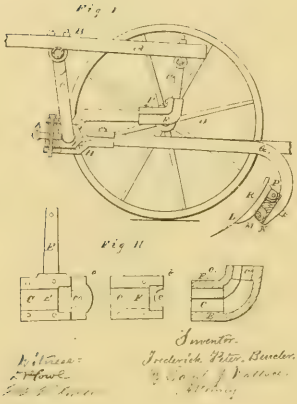
W. ALDRICH.
WHEEL CULTIVATOR.
No. 182,623. Patented Sept. 26, 1876



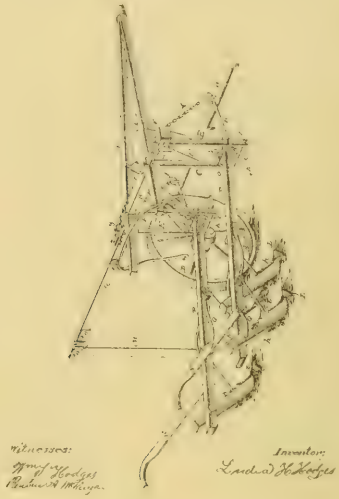
Witnesses,
Chas Mitsch
G. Ritche

Inventor:
Walter Aldrich
by his Atty
Ricks & G

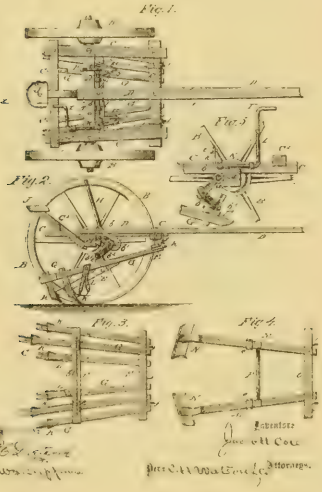
F. P. BEUCLER.
CULTIVATOR.
No. 182,988. Patented Oct. 10, 1876.



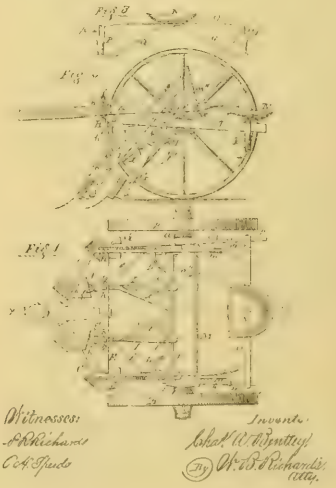
L. H. HODGES.
WHEEL-CULTIVATOR.
No. 183,004. Patented Oct. 10, 1876.



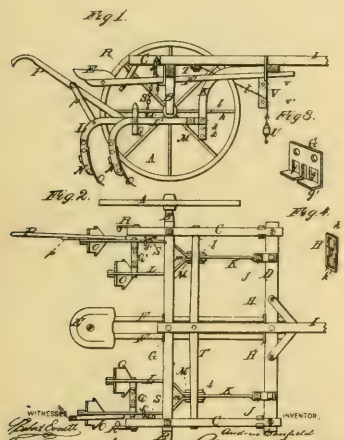
J. H. COLE.
COMBINED CULTIVATOR AND SULKY-PLOW.
No. 183,251. Patented Oct. 17, 1876.



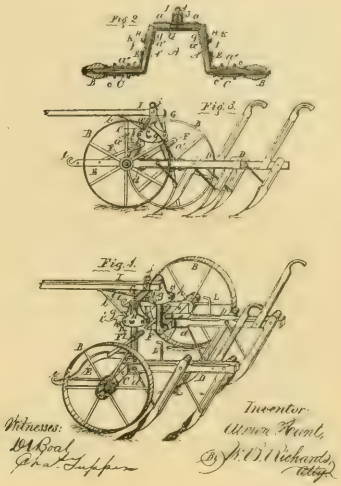
C. A. BENTLEY.
CULTIVATOR.
No. 183,280. Patented Oct. 17, 1876.



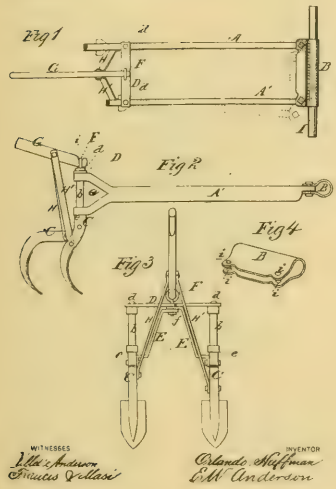
A. CANFIELD.
RIDING AND WALKING CULTIVATOR.
No. 183,639. Patented Oct. 24, 1876.



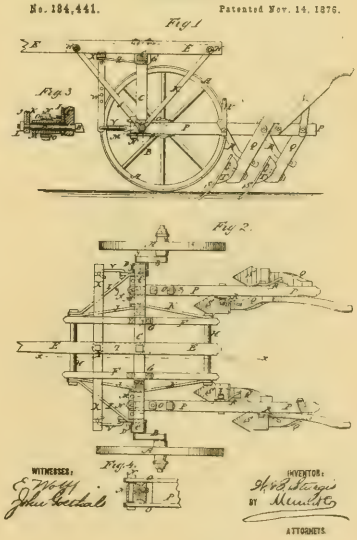
A. HUNT.
CULTIVATOR.
No. 184,042. Patented Nov. 7, 1876.



C. HUFFMAN.
WHEEL-CULTIVATORS.
No. 184,155. Patented Nov. 7, 1876.



W. B. STURGIS.
CULTIVATOR.
No. 184,441. Patented Nov. 14, 1876.



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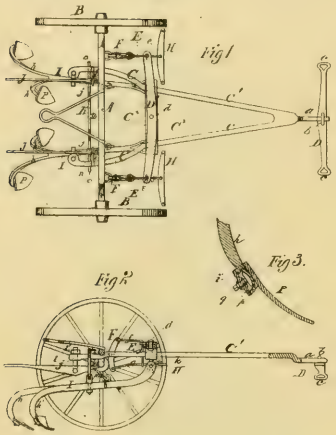
J. C. BANNIGAN.
CULTIVATOR.

No. 185,471. Patented Dec. 19, 1876.



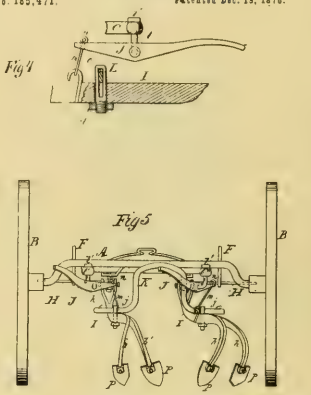
WITNESSES
Willis Anderson
Francis J. Allen

INVENTOR
John C. Bannigan
by E. W. Anderson
ATTORNEY

2 Sheets—Sheet 2.

J. C. BANNIGAN.
CULTIVATOR.

No. 185,471. Patented Dec. 19, 1876.



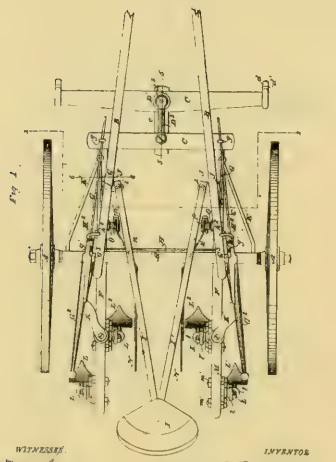
WITNESSES
Willis Anderson
Francis J. Allen

INVENTOR
John C. Bannigan
by E. W. Anderson
ATTORNEY

3 Sheets—Sheet 1.

J. H. JONES.
CULTIVATOR.

No. 185,932. Patented Jan. 2, 1877.



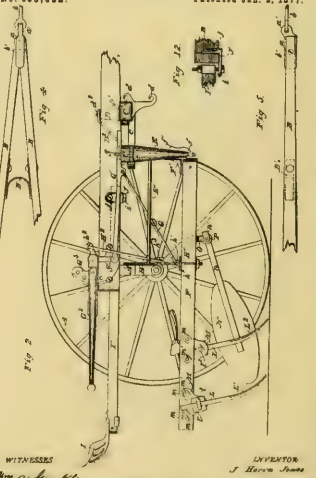
WITNESSES
Wm. A. Shenk
A. Hill

INVENTOR
J. Horace Jones
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 2.

J. H. JONES.
CULTIVATOR.

No. 185,932. Patented Jan. 2, 1877.



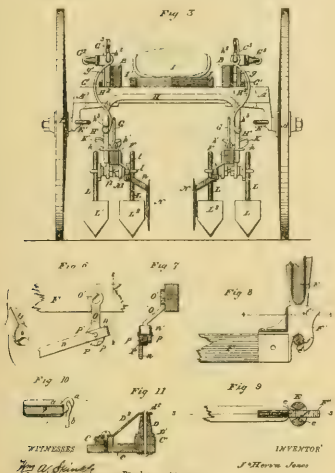
WITNESSES
Wm. A. Shenk
A. Hill

INVENTOR
J. Horace Jones
By his Attorneys
Baldwin Hopkins & Peyton

3 Sheets—Sheet 3.

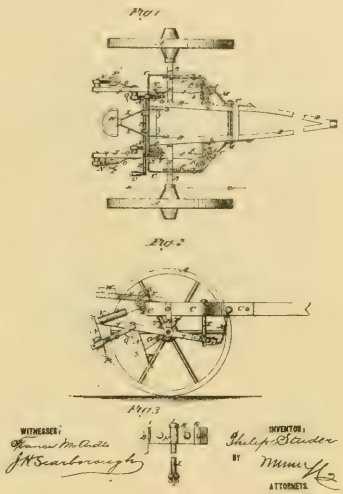
J. H. JONES
CULTIVATOR.

No. 185,932. Patented Jan. 2, 1877.



P. STUDER.
CULTIVATOR.

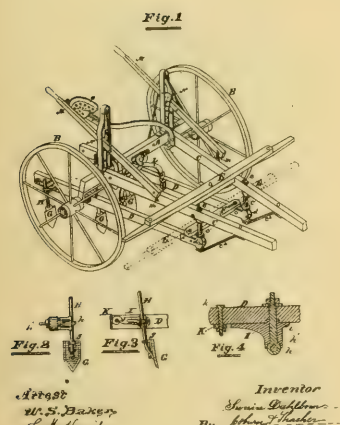
No. 186,065. Patented Jan. 9, 1877.



2 Sheets—Sheet 1

S. DAHLBOM.
WHEEL-CULTIVATOR.

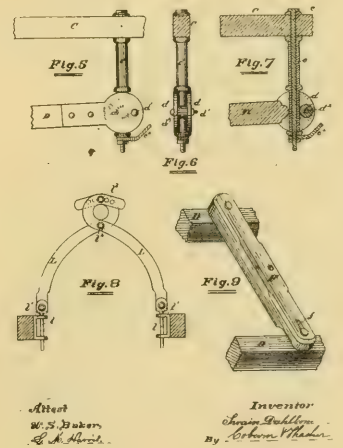
No. 186,713. Patented Jan. 30, 1877.



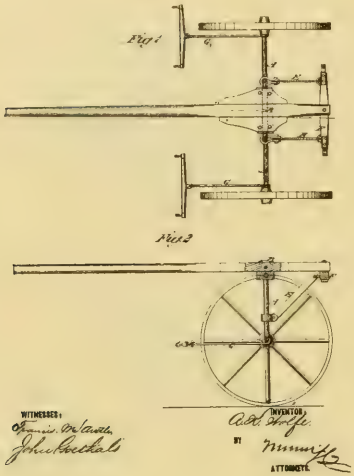
2 Sheets—Sheet 2

S. DAHLBOM.
WHEEL-CULTIVATOR.

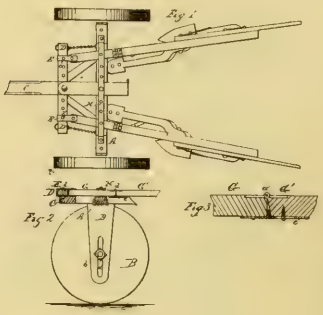
No. 186,713. Patented Jan. 30, 1877.



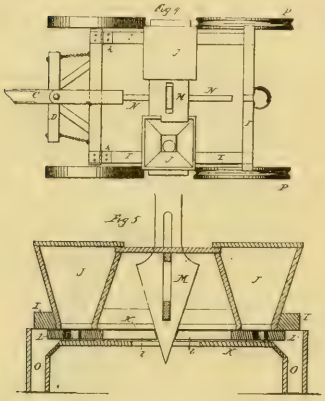
A. K. WOLFE.
WHEEL-PLOW CARRIAGE.
No. 186,780. Patented Jan. 30, 1877.



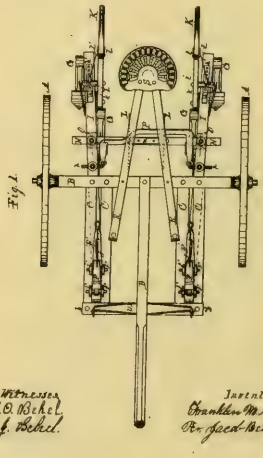
2 Sheets—Sheet 1.
J. F. POOLE.
COMBINED CULTIVATOR AND CORN-PLANTER.
No. 186,873. Patented Jan. 30, 1877.



2 Sheets—Sheet 2.
J. F. POOLE.
COMBINED CULTIVATOR AND CORN-PLANTER.
No. 186,873. Patented Jan. 30, 1877.



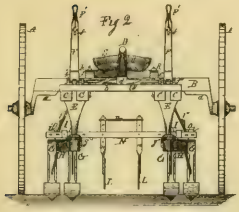
3 Sheets—Sheet 1.
F. M. NEEDHAM.
WHEEL-CULTIVATOR.
No. 187,043. Patented Feb. 6, 1877.

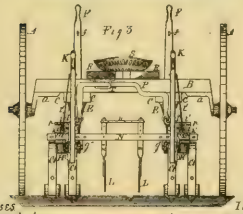


3 Sheets—Sheet 2

F. M. NEEDHAM.
WHEEL-CULTIVATOR.

No. 187,043. Patented Feb. 6, 1877.





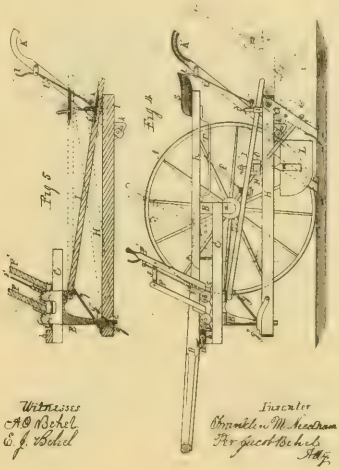
Witnesses
A. O. Bechel
E. J. Bechel

Inventor
Franklin M. Needham
Per Jacob Bechel
Atty.

3 Sheets—Sheet 3

F. M. NEEDHAM.
WHEEL-CULTIVATOR.

No. 187,043. Patented Feb. 6, 1877



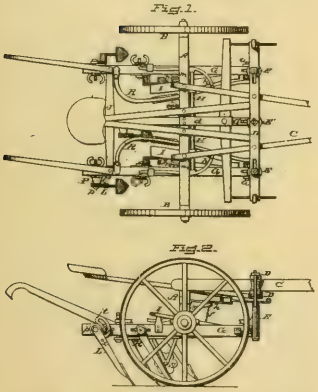
Witnesses
A. O. Bechel
E. J. Bechel

Inventor
Franklin M. Needham
Per Jacob Bechel
Atty.

2 Sheets—Sheet 1.

R. B. ROBBINS.
CULTIVATOR.

No. 187,235. Patented Feb. 13, 1877.



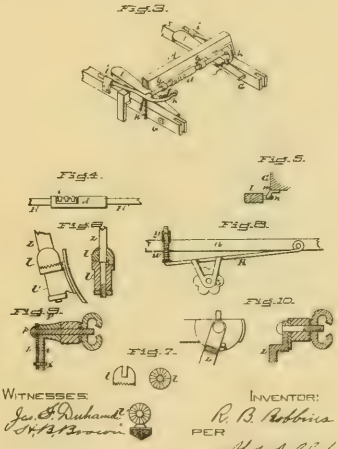
WITNESSES:
Jas. F. Duhamel
H. B. Brown

INVENTOR:
R. B. Robbins.
PER
H. A. Abbott.
ATTORNEY.

2 Sheets—Sheet 2.

R. B. ROBBINS.
CULTIVATOR

No. 187,235. Patented Feb. 13, 1877.



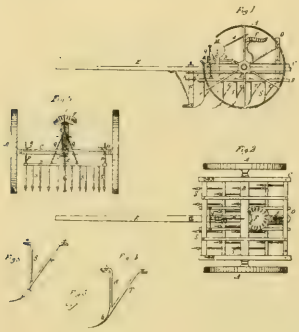
WITNESSES:
Jas. F. Duhamel
H. B. Brown

INVENTOR:
R. B. Robbins
PER
H. A. Abbott.
ATTORNEY.

J. RICHARDSON.

FALLOW CULTIVATOR.

No. 189,266. Patented April 3, 1877.



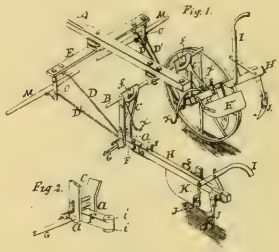
Witnesses:
F. G. Stone
W. H. Crockett

Inventor
John Richardson
By W. Pierce
Sol. Atty.

J. M. LONG.

CULTIVATOR.

No. 189,896. Patented April 24, 1877.



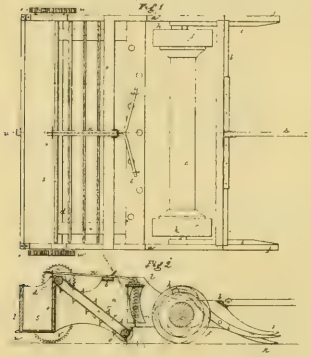
Witnesses:
[illegible]
[illegible]

Inventor:
John M. Long
By H. B. K. Rust
Attorney

W. PIERCE.

STRAWBERRY AND VEGETABLE CULTIVATOR.

No. 190,247. Patented May 1, 1877.



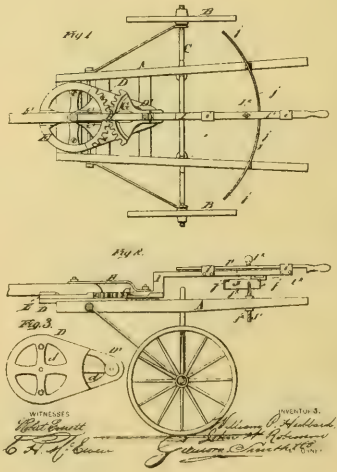
Witnesses
[illegible]
[illegible]

Inventor
William Pierce
by Crosby & Gregory Attys

W. P. HUBBARD & J. W. ROBINSON.

CULTIVATOR ATTACHMENT.

No. 190,328. Patented May 1, 1877.

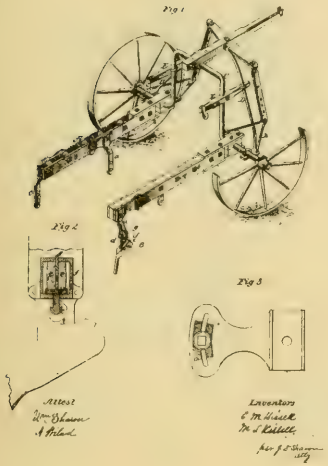


WITNESSES
[illegible]
[illegible]

INVENTORS
William P. Hubbard
Joseph W. Robinson
by Munn & Co. Attys.

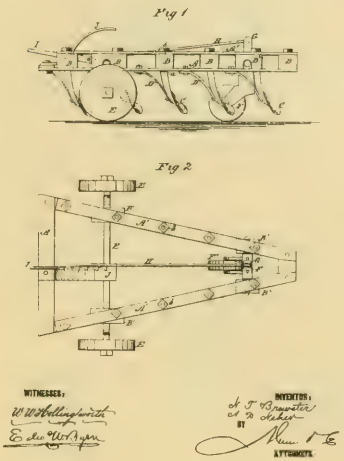
F. M. & M. L. RISSELL.
WHEEL CULTIVATOR

No. 190,972. Patented May 22, 1877.



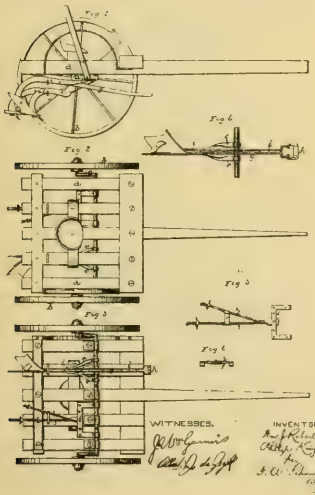
N. T. BREWSTER & A. D. NEHER.
CULTIVATOR

No. 191,101 Patented May 22, 1877.



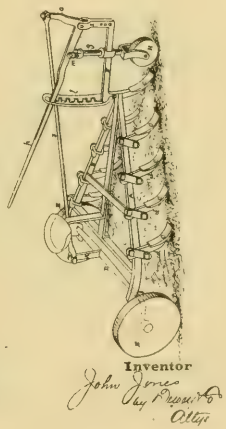
W. J. ROBERTSON & P. KNIGHT.
CULTIVATOR.

No. 191,179. Patented May 22, 1877.



J. JONES.
CULTIVATOR

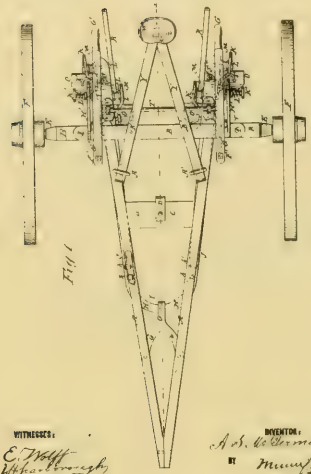
No. 191,347. Patented May 29, 1877.



2 Sheets—Sheet 1.

A. S. McDERMOTT.
CULTIVATOR

No. 191,606. Patented June 5, 1877.



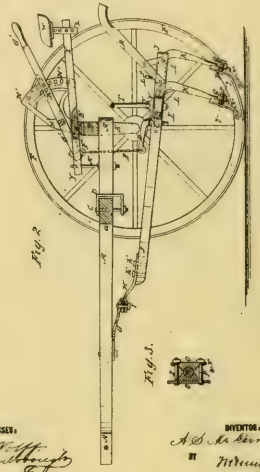
WITNESSES:
E. Wolff
J. H. Scaubrough

INVENTOR:
A. S. McDermott
BY
Munn & Co
ATTORNEYS.

2 Sheets—Sheet 2.

A. S. McDERMOTT.
CULTIVATOR.

No. 191,606. Patented June 5, 1877.

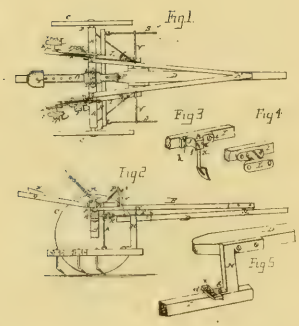


WITNESSES:
E. Wolff
J. H. Scaubrough

INVENTOR:
A. S. McDermott
BY
Munn & Co
ATTORNEYS.

W. E. DEWEY.
CULTIVATOR.

No. 191,660. Patented June 6, 1877

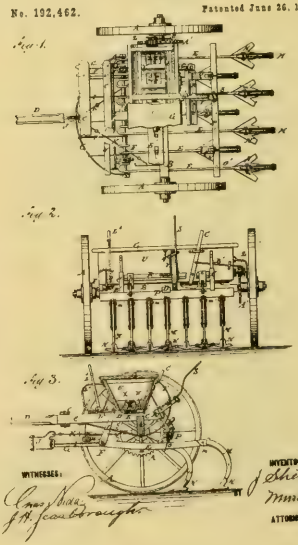


Witnesses
H. B. Stoughton
Geo. H. Graham

Inventor
W. E. Dewey
per
T. H. Alexander & Co
Attorneys

J. SHERRILL.
CULTIVATOR.

No. 192,462. Patented June 26, 1877.



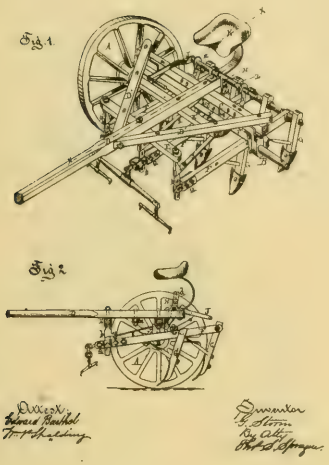
WITNESSES:
Chas. Ward
J. H. Scaubrough

INVENTOR:
J. Sherrill
BY
Munn & Co
ATTORNEYS.

G. STORM.

CULTIVATOR.

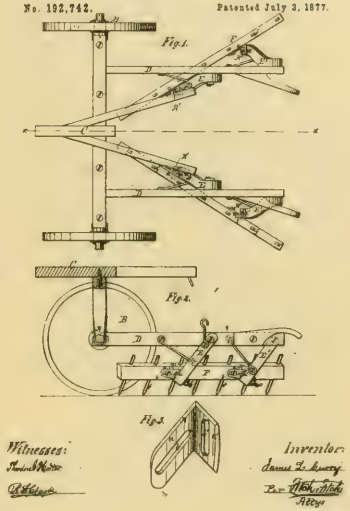
No. 192,541. Patented June 26, 1877.



J. L. CURRY.

CORN HARROW AND CULTIVATOR.

No. 192,742. Patented July 3, 1877.



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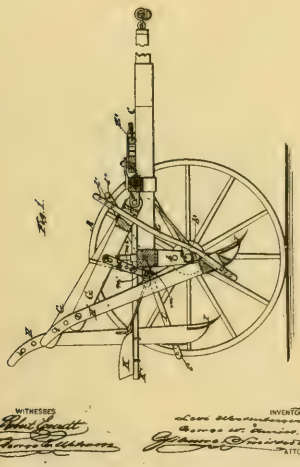
L. WERTENBERGER & G. W. AMISS.

SULKY-PLOW AND CULTIVATOR.

No. 192,800. Patented July 3, 1877.

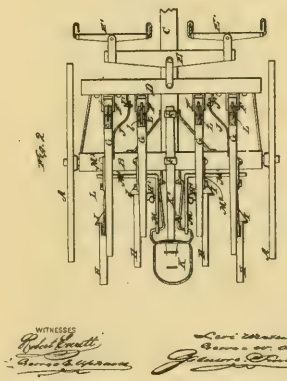


2 Sheets—Sheet 2.

L. WERTENBERGER & G. W. AMISS.

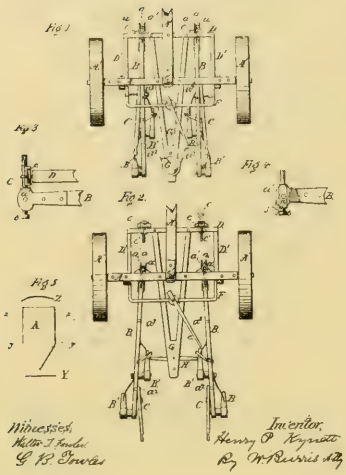
SULKY-PLOW AND CULTIVATOR.

No. 192,800. Patented July 3, 1877.



H. P. KYNETT.
CULTIVATOR.

No. 192,922. Patented July 10, 1877



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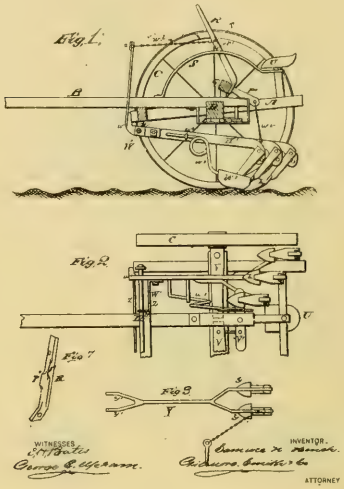
S. N. HENCH
CULTIVATOR

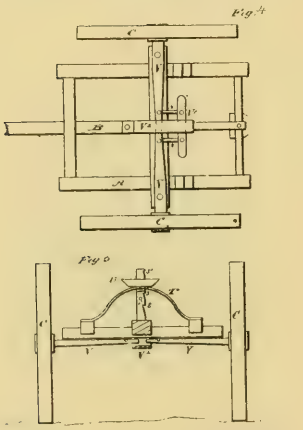
No. 192,992. Patented July 10, 1877



3 Sheets—Sheet 2

S. N. HENCH.
CULTIVATOR.

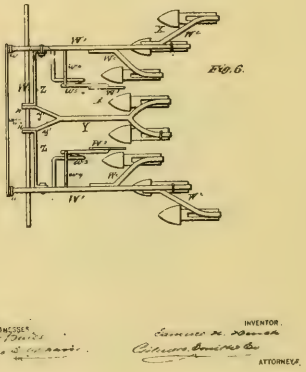
No. 192,992. Patented July 10, 1877.



3 Sheets—Sheet 3.

S. N. HENCH.
CULTIVATOR.

No. 192,992. Patented July 10, 1877

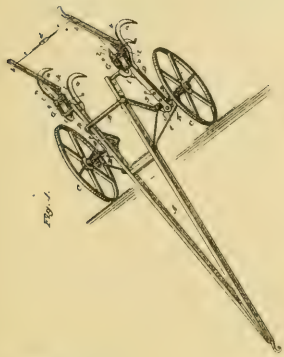


2 Sheets—Sheet 1.

W. G. BARNES.

CORN-CULTIVATORS.

No. 193,912. Patented Aug. 7, 1877.



Witnesses: E. E. Court. Augustus Herrschn

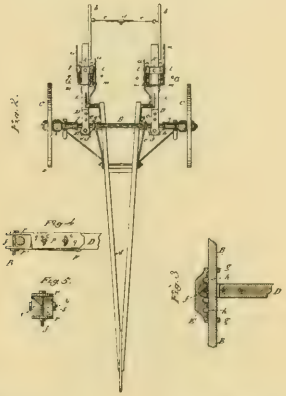
Inventor: Walter G. Barnes, by Louis Bagger & Co. Attorneys

2 Sheets—Sheet 2.

W. G. BARNES.

CORN-CULTIVATORS.

No. 193,912. Patented Aug. 7, 1877.



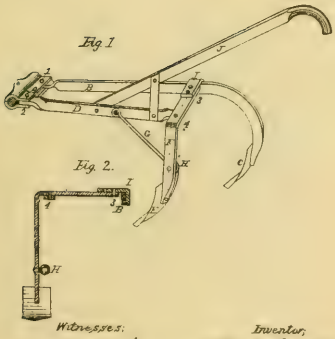
Witnesses: E. E. Court. Augustus Herrschn

Inventor: Walter G. Barnes, by Louis Bagger & Co. Attorneys

T. D. GUTHRIE, Jr.

CULTIVATORS.

No. 194,146. Patented Aug. 14, 1877.



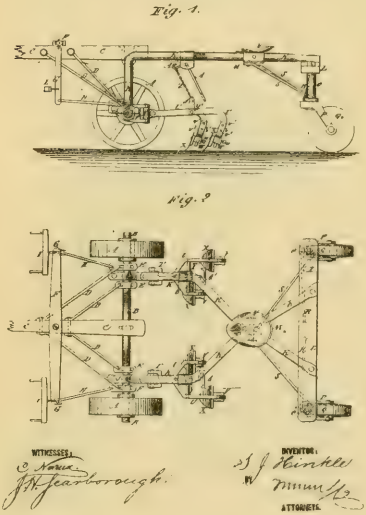
Witnesses: E. S. Jackman, Henry A. Clay

Inventor: Thos. D. Guthrie Jr.

S. J. HINKLE.

RIDING-CULTIVATORS.

No. 194,150. Patented Aug. 14, 1877.



WITNESSES: C. Nance, J. H. Jearbrough.

INVENTOR: S. J. Hinkle, by Munn & Co. ATTORNEYS.

2 Sheets—Sheet 1.

J. H. PALM.

RIDING-CULTIVATORS.

No. 194,366. Patented Aug. 21, 1877.

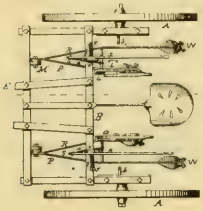


Fig 1.

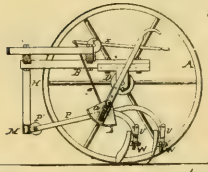


Fig 2.

Witnesses;
Fermille Laws
Chas H. Bill

Inventor
James H. Palm
by his attorney
Cox Bros.

2 Sheets—Sheet 2.

J. H. PALM.

RIDING-CULTIVATORS.

No. 194,366. Patented Aug. 21, 1877.

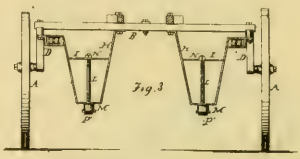


Fig. 3

Fig 4

Fig 5

Fig 6

Witnesses.
Fermille Laws
Chas H. Bill

Inventor
James H. Palm
by his attorney
Cox Bros

D. ARCHER, Jr.

ADJUSTABLE WHEEL CULTIVATORS.

No. 194,570. Patented Aug. 28, 1877.

Fig. 1.

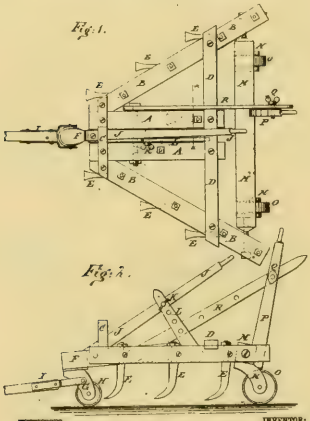


Fig. 2.

Fig. 3.

WITNESSES:
Chas. Nau
J. W. Fairbrough

INVENTOR:
D. Archer Jr.
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1.

W. METTLER.

Wheel-Cultivators.

No. 196,818. Patented Nov. 6, 1877.

Fig 1

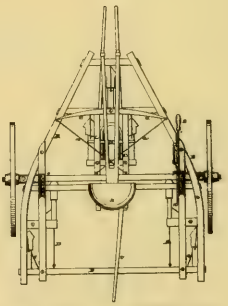


Fig 2

Fig. 3

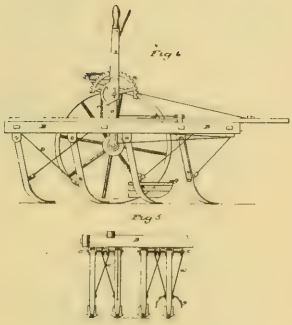
Witnesses.
Thos. H. Hutchins
Wm. J. Hutchins

Inventor
William Mettler

2 Sheets—Sheet 2

W. METTLER.
Wheel-Cultivators.

No. 196,818. Patented Nov. 6, 1877.

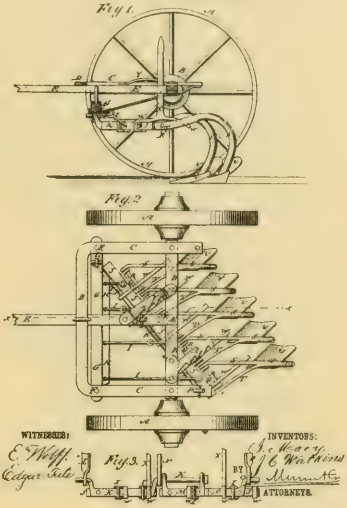


Witnesses:
Thos. G. Hutchins
Wm. J. Hutchins

Inventor
William Mettler

I. MACY & J. C. WATKINS.
Wheel Cultivator.

No. 197,038. Patented Nov. 13, 1877.



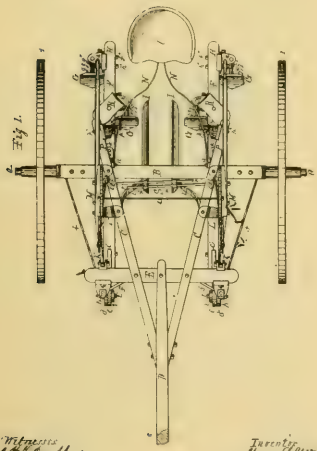
WITNESSES:
E. Wiff.
Edgar Tate

INVENTORS:
I. C. Macy
J. C. Watkins
BY Munn & Co
ATTORNEYS.

4 Sheets—Sheet 1.

M. L. UTTER.
Cultivator.

No. 197,503. Patented Nov. 27, 1877.



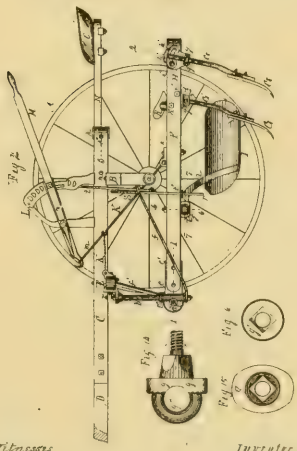
Witnesses
H. H. Gridley
A. O. Behel

Inventor
Morris L. Utter
Per Jacob Wehel
Atty

4 Sheets—Sheet 2

M. L. UTTER.
Cultivator.

No. 197,503. Patented Nov. 27, 1877.



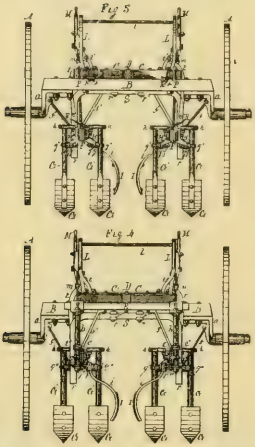
Witnesses
H. H. Gridley
A. O. Behel

Inventor
Morris L. Utter
Per Jacob Wehel
Atty

4 Sheets—Sheet 3

M. L. UTTER.
Cultivator.

No. 197,503. Patented Nov. 27, 1877.



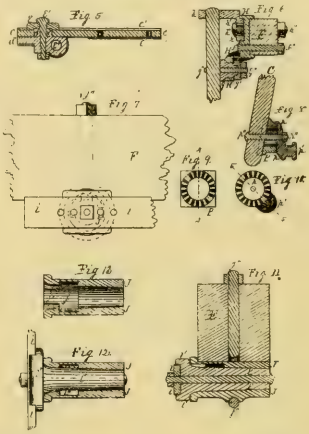
Witnesses
A. H. Bond

Inventor
Morris L. Utter
By Jacob Bond
Atty.

4 Sheets—Sheet 4

M. L. UTTER
Cultivator.

No. 197,503. Patented Nov. 27, 1877.

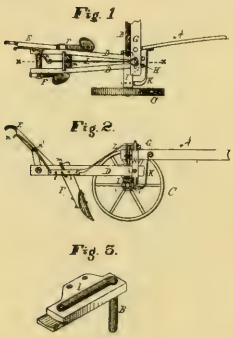


Witnesses
A. H. Bond

Inventor
Morris L. Utter
By Jacob Bond
Atty

I. BARBER.
Cultivator.

No. 198,069. Patented Dec. 11, 1877

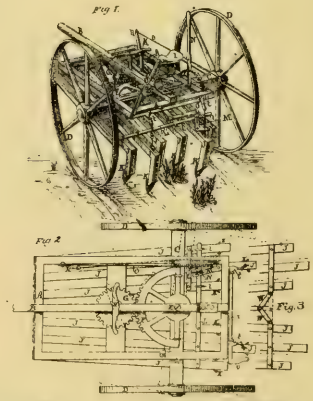


Witnesses
John R. Smith
John A. Stinbaugh

Inventor
Ira Barber
Munday & Evarts
Attorneys

R. T. BOWNE.
Cultivator.

No. 198,563. Patented Dec. 25, 1877.

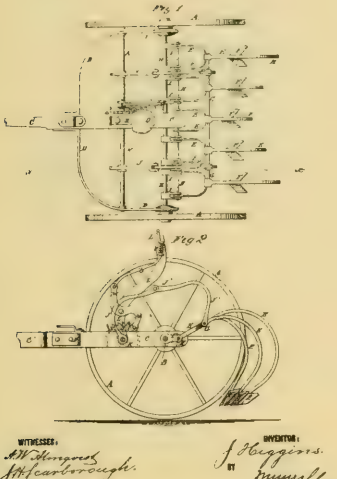


WITNESSES
C. F. Coul

INVENTOR
Robert T. Bowne
By his Atty
R. N. Wilmarth

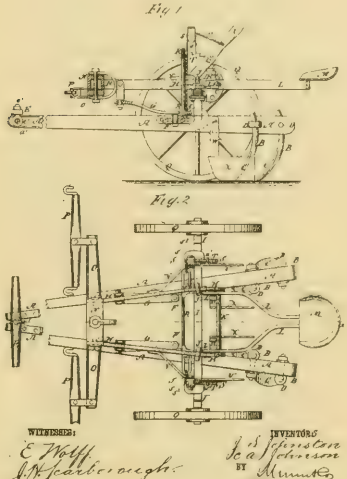
J. HIGGINS.
Cultivators.

No. 198,616. Patented Dec. 25, 1877.



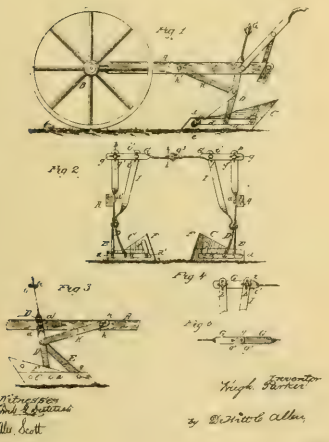
J. S. JOHNSTON & C. A. JOHNSON
Cultivator.

No. 198,624. Patented Dec. 25, 1877.



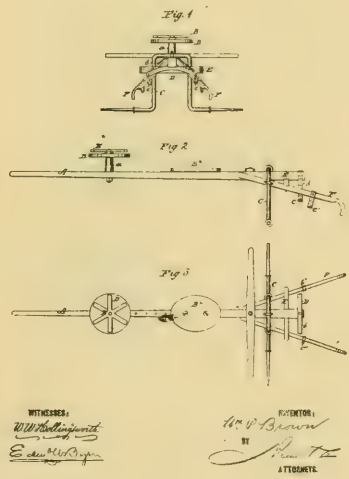
H. PARKER.
Gopher or Ridging Attachment for Cultivator.

No. 198,752. Patented Jan. 1, 1878.



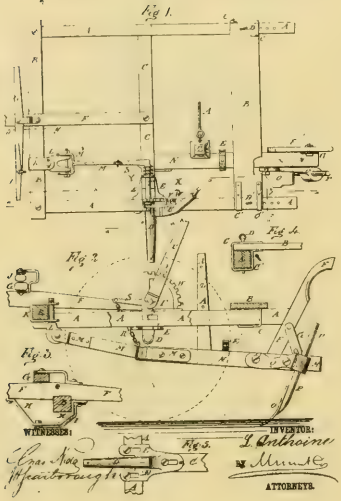
W. P. BROWN.
Cultivator Tongues.

No. 199,025. Patented Jan. 8, 1878.



L. ANTHOINE.
Cultivator.

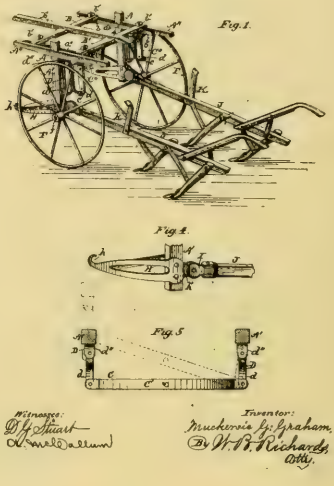
No. 199,680. Patented Jan. 29, 1878.



2 Sheets—Sheet 1

M. G. GRAHAM.
Cultivator.

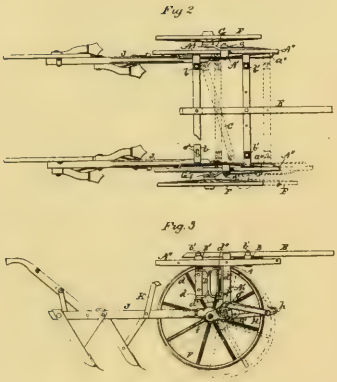
No. 199,701. Patented Jan. 29, 1878.



2 Sheets—Sheet 2

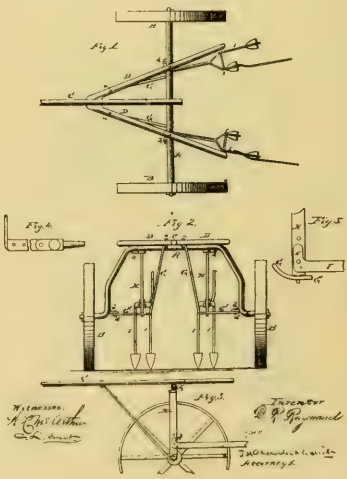
M. G. GRAHAM.
Cultivator.

No. 199,701. Patented Jan. 29, 1878.



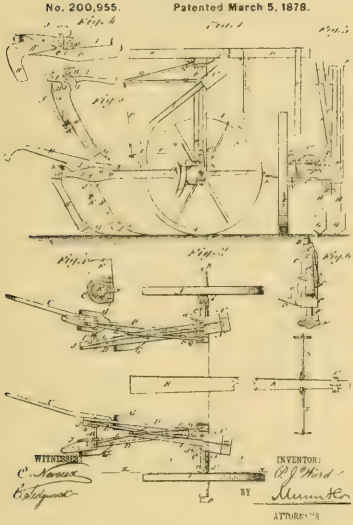
D. R. RAYMOND.
Cultivator.

No. 200,089. Patented Feb. 5, 1878.



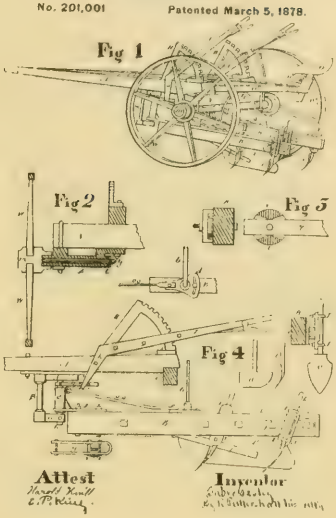
P. J. WARD
Cultivator

No. 200,955. Patented March 5, 1878.



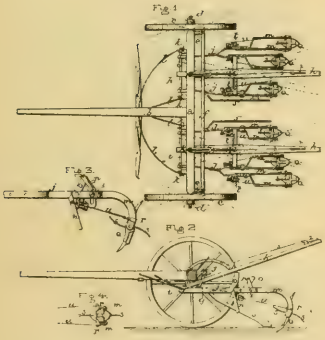
S. GESLEY.
Sulky-Cultivator.

No. 201,001 Patented March 5, 1878.



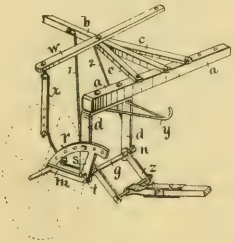
D. S. WAGNER.
Cultivator.

No. 201,136. Patented March 12, 1878.



D. PATTEE.
Corn Cultivator

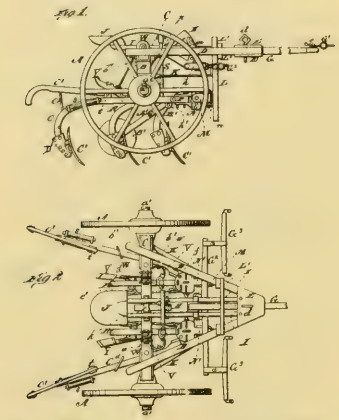
No. 201,627 Patented March 26, 1878



2 Sheets—Sheet 1

T. P. S. WEEMS.
Cultivator

No. 202,079. Patented April 2, 1878.



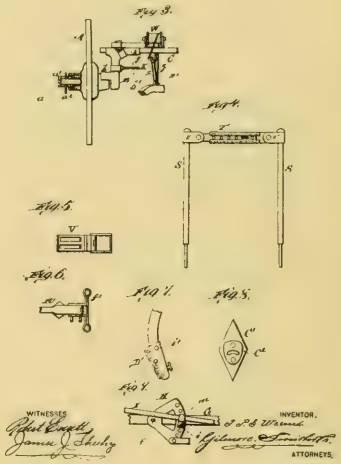
WITNESSES
Robt Boyle
James J. Shelby

INVENTOR
T. P. S. Weems
Gilmore & Smith
ATTORNEYS

2 Sheets—Sheet 2

T. P. S. WEEMS.
Cultivator.

No. 202,079. Patented April 2, 1878.



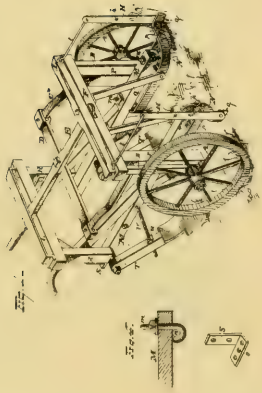
WITNESSES
Robt Boyle
James J. Shelby

INVENTOR.
T. P. S. Weems
Gilmore & Smith
ATTORNEYS.

2 Sheets—Sheet 1

F. C. LEFFLER.
Cultivator.

No. 202,112. Patented April 9, 1878.



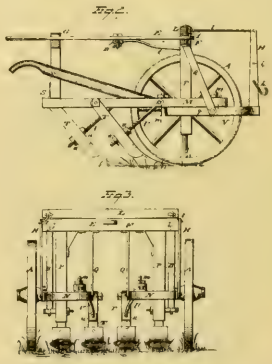
WITNESSES
Ed. L. Hollinshead
M. Bright

INVENTOR
Frederick C. Leffler
By H. A. Seymour
ATTORNEY

2 Sheets—Sheet 2.

F. C. LEFFLER.
Cultivator.

No. 202,112. Patented April 9, 1878.

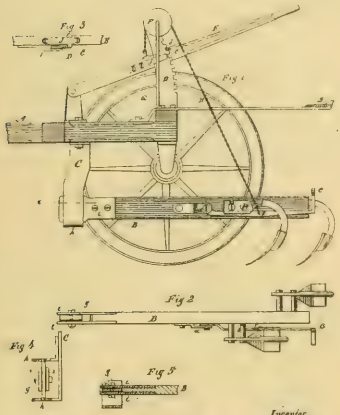


WITNESSES
Ed. L. Hollinshead
M. Bright

INVENTOR
Frederick C. Leffler
By H. A. Seymour
ATTORNEY

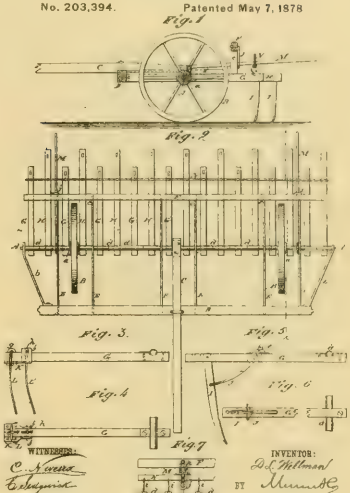
G. W. STAVER.
Riding Corn-Cultivator.

No. 202,383. Patented April 16, 1878.



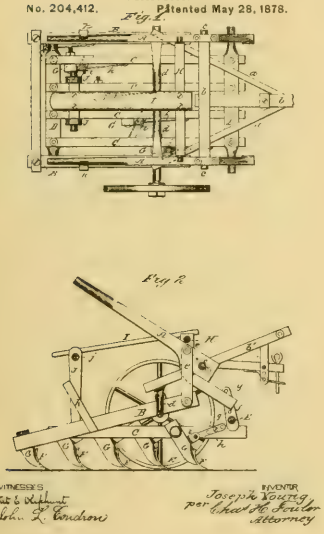
D. L. WELLMAN.
Cultivator.

No. 203,394. Patented May 7, 1878



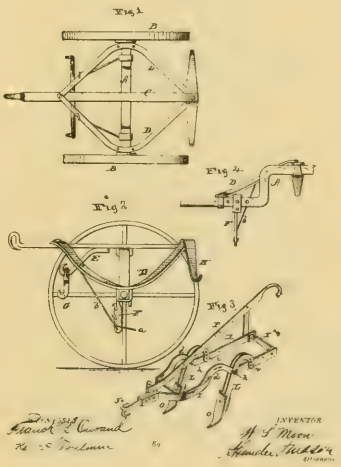
J. YOUNG.
Cultivator.

No. 204,412. Patented May 28, 1878.

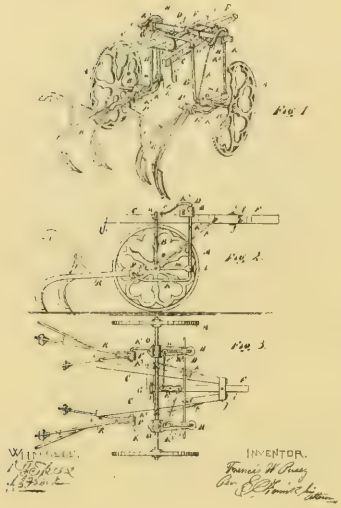


W. S. MOON.
Cultivator.

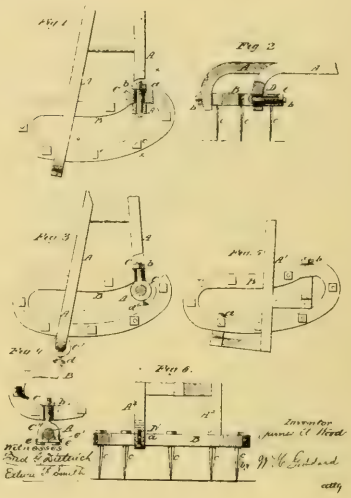
No. 205,889. Patented July 9, 1878.



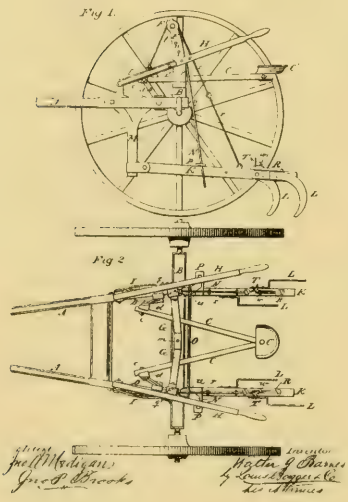
F. W. PUSEY.
Wheel-Cultivator
No. 206,040. Patented July 16, 1878.



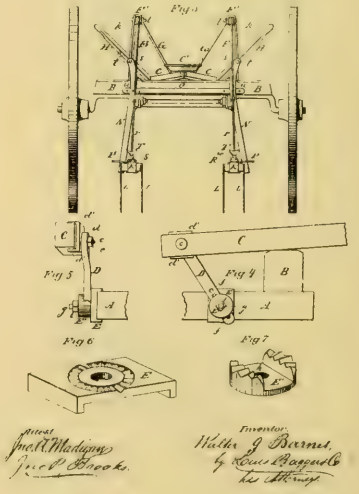
J. A. WOOD.
Harrow Attachment for Wheel-Plows.
No. 206,409. Patented July 30, 1878.



2 Sheets—Sheet 1.
W. G. BARNES
Riding-Cultivator.
No. 206,763. Patented Aug. 6, 1878.

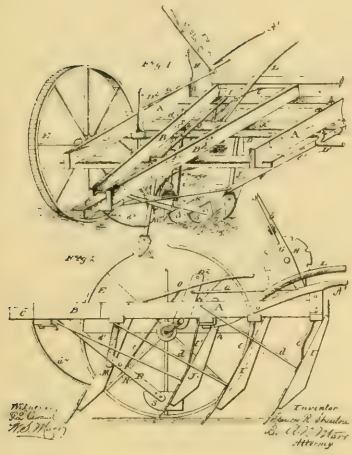


2 Sheets—Sheet 2
W. G. BARNES
Riding-Cultivator.
No. 206,763. Patented Aug. 6, 1878.



S. R. STANTON.
Cultivator.

No. 206,903. Patented Aug. 13, 1878.



3 Sheets—Sheet 1

C. D. BRADLEY.
Cultivator.

No. 206,925. Patented Aug. 13, 1878

FIG. 1.

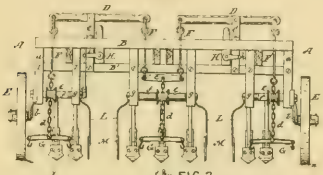
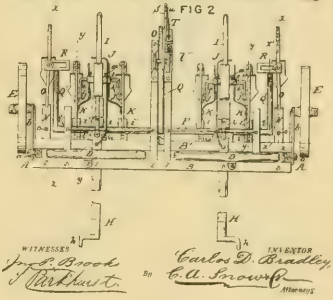


FIG 2



WITNESSES
Jno. P. Brooks
J. Parkhurst.

INVENTOR
Carlos D. Bradley,
By C. A. Snow & Co.
Attorneys

3 Sheets—Sheet 2

C. D. BRADLEY.
Cultivator.

No. 206,925. Patented Aug. 13, 1878.

FIG 3

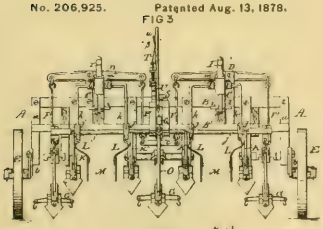
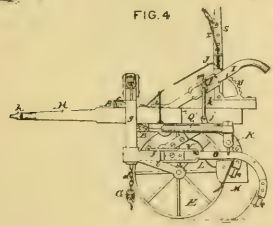


FIG. 4



WITNESSES
Jno. P. Brooks
J. Parkhurst.

INVENTOR
Carlos D. Bradley,
By C. A. Snow & Co.
Attorneys

3 Sheets—Sheet 3

C. D. BRADLEY
Cultivator.

No. 206,925. Patented Aug. 13, 1878

FIG 5

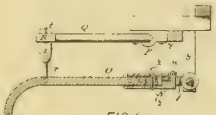


FIG 6

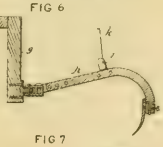


FIG 7

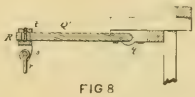


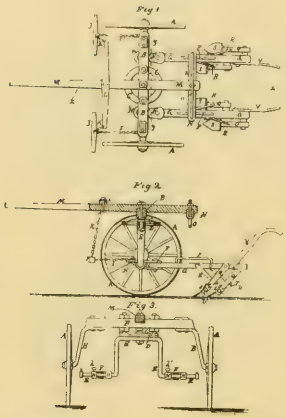
FIG 8

WITNESSES
Jno. P. Brooks
J. Parkhurst.

INVENTOR
Carlos D. Bradley,
By C. A. Snow & Co.
Attorneys

J. E. MUSTARD.
Wheel-Cultivator.

No. 206,961. Patented Aug. 13, 1878.



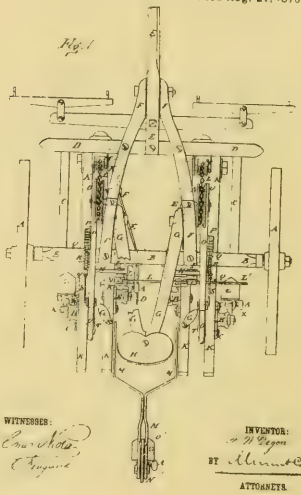
WITNESSES:
Henry H. Miller.
C. Sedgwick

INVENTOR:
J. E. Mustard
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1

F. W. DEGEN
Sulky-Cultivator.

No. 207,398 Patented Aug. 27, 1878.



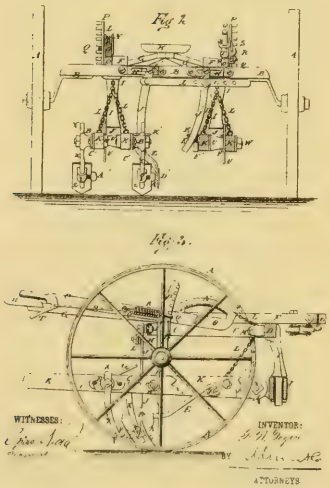
WITNESSES:
Chas. Notes
C. Sedgwick

INVENTOR:
F. W. Degen
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 2

F. W. DEGEN.
Sulky-Cultivator.

No. 207,398. Patented Aug. 27, 1878.

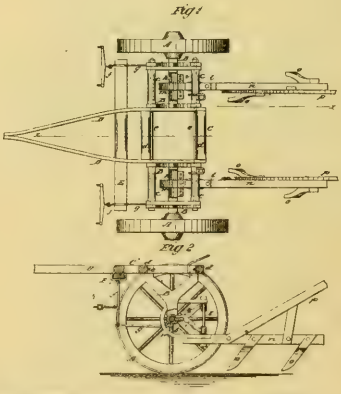


WITNESSES:
C. Sedgwick

INVENTOR:
F. W. Degen
BY Munn & Co.
ATTORNEYS

F. M. CROPP.
Cultivator.

No. 208,073. Patented Sept. 17, 1878.

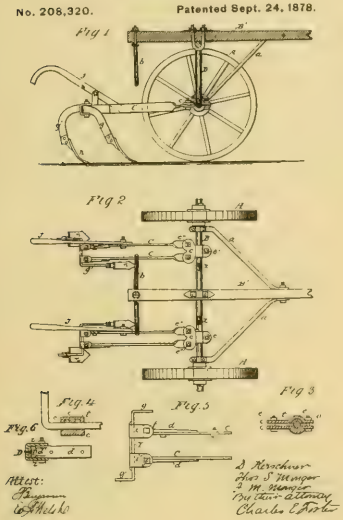


WITNESSES:

INVENTOR:
F. M. Cropp
BY Munn & Co.
ATTORNEYS.

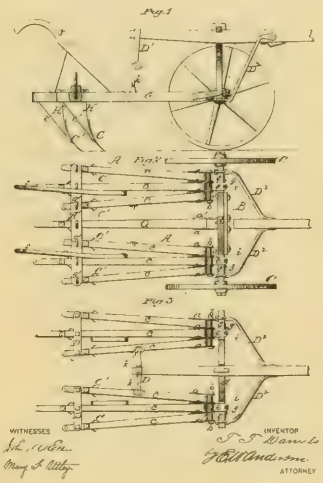
D. KERSCHNER, T. S. & F. M. MONGER.
Plow.

No. 208,320. Patented Sept. 24, 1878.



T. T. DANIELS.
Combined Cultivator and Corn-Plow.

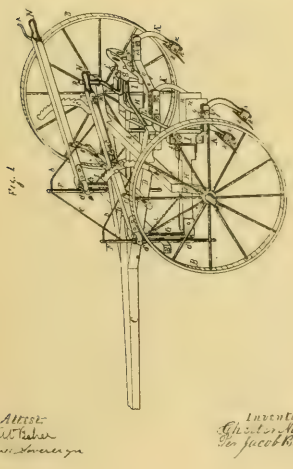
No. 208,377. Patented Sept. 24, 1878.



2 Sheets—Sheet 1

C. NASH.
Cultivator.

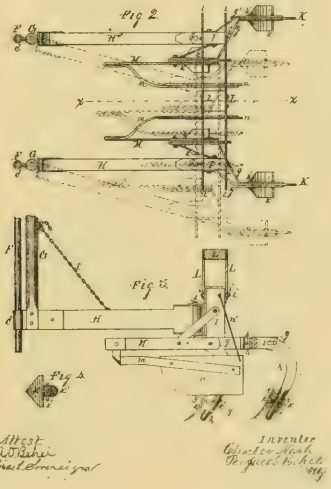
No. 208,921. Patented Oct. 15, 1878.



2 Sheets—Sheet 2.

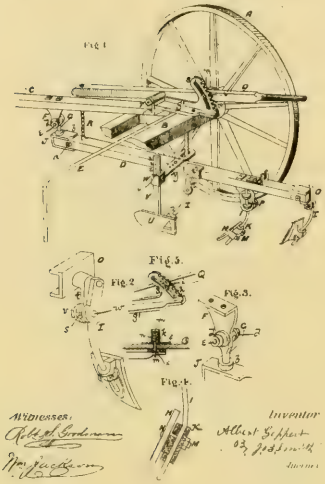
C. NASH.
Cultivator.

No. 208,921. Patented Oct. 15, 1878.



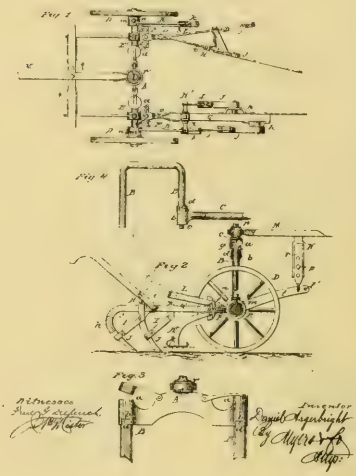
A. GEPPERT.
Wheel-Cultivator.

No. 209,118. Patented Oct. 22, 1878.



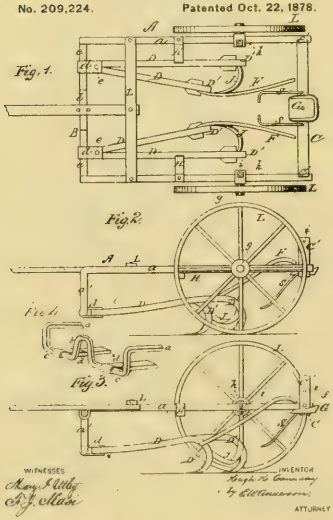
D. ARGENBRIGHT.
Wheel-Cultivator.

No. 209,210. Patented Oct. 22, 1878.



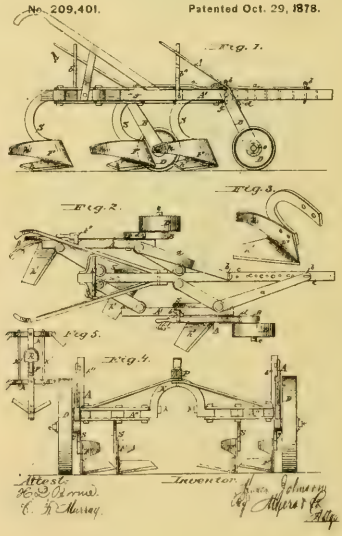
H. H. CANADAY.
Riding-Cultivator.

No. 209,224. Patented Oct. 22, 1878.



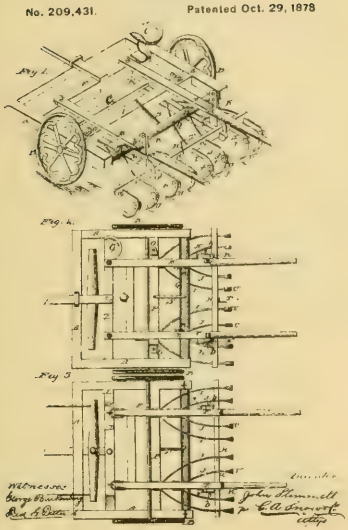
M. JOHNSON.
Cultivator.

No. 209,401. Patented Oct. 29, 1878.



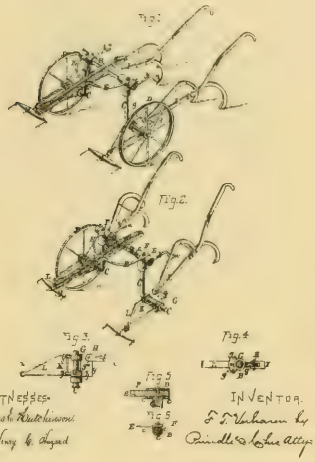
J. STIMMELL.
Wheat Cultivator.

No. 209,431. Patented Oct. 29, 1878



F. T. VERHAREN
Corn-Cultivator.

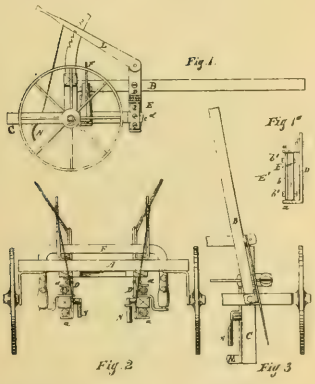
No. 209,527. Patented Oct. 29, 1878.



2 Sheets—Sheet 1

G. W. STAVER.
Cultivator.

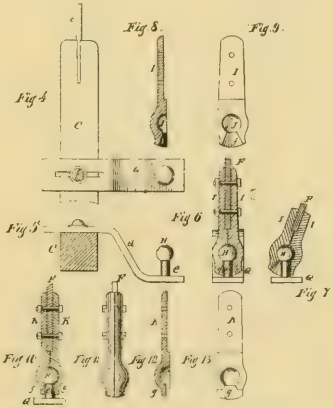
No. 209,780. Patented Nov. 12, 1878.



2 Sheets—Sheet 2

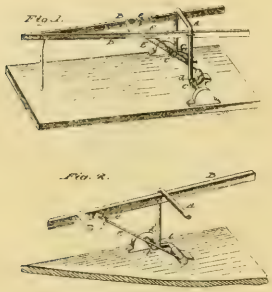
G. W. STAVER
Cultivator.

No. 209,780. Patented Nov. 12, 1878.



W. T. ADDISON.
Cultivator.

No. 210,073. Patented Nov. 19, 1878.



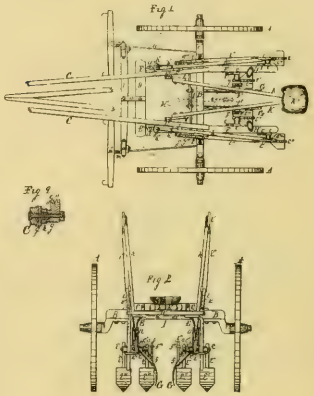
Witnesses
Robt. G. Dilworth
Geo. Plankenhorn

Inventor
William T. Addison
by Louis Bagger & Co.
Pls. Attorneys

2 Sheets—Sheet 1.

W. A. KNOWLTON & A. RUTLEDGE.
Cultivator.

No. 210,861. Patented Dec. 17, 1878.



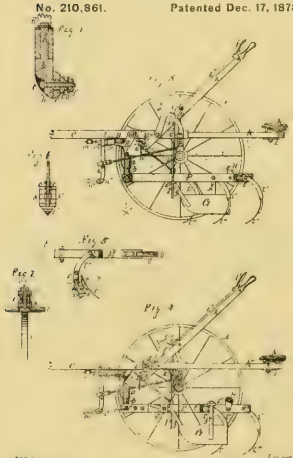
Witnesses
Chas. G. Riehl
Geo. Plankenhorn

Inventor
William A. Knowlton
Andrew Rutledge
by Jacob Schatz
Atty.

2 Sheets—Sheet 2.

W. A. KNOWLTON & A. RUTLEDGE.
Cultivator.

No. 210,861. Patented Dec. 17, 1878.



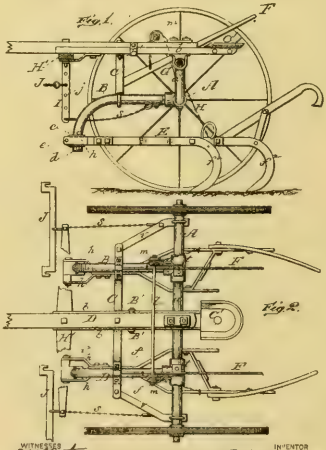
Witnesses
Chas. G. Riehl
Geo. Plankenhorn

Inventor
William A. Knowlton
Andrew Rutledge
by Jacob Schatz
Atty.

2 Sheets—Sheet 1.

A. CANFIELD.
Cultivator.

No. 210,993. Patented Dec. 17, 1878.



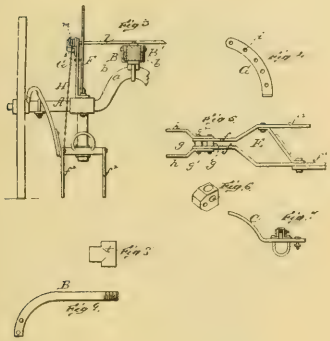
WITNESSES
C. H. Bates
C. J. Klase

INVENTOR
Andrew Canfield
by Bartlemson
ATTORNEY

2 Sheets—Sheet 2

A. CANFIELD.
Cultivator.

No. 210,993. Patented Dec. 17, 1878.



WITNESSES
F. T. Bates
P. J. Glass

INVENTOR
Andrew Canfield
by E. H. Anderson
ATTORNEY

2 Sheets—Sheet 1.

S. BAILEY.
Cultivator.

No. 211,646. Patented Jan. 28, 1879.

FIG 1.

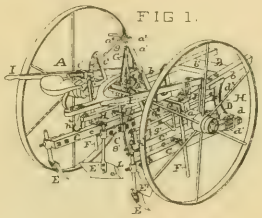
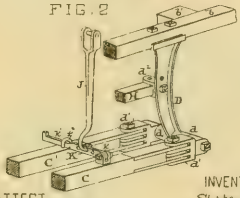


FIG. 2



ATTEST.
Paul Bakewell
Charles Pickles

INVENTOR.
Stephen Bailey
by Chas S. Moody
atty

2 Sheets—Sheet 2

S. BAILEY.
Cultivator.

No. 211,646. Patented Jan. 28, 1879.

FIG 3.

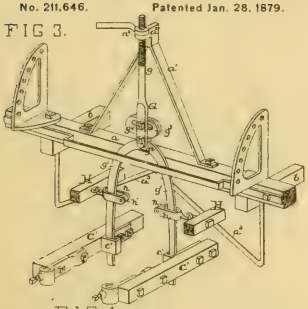


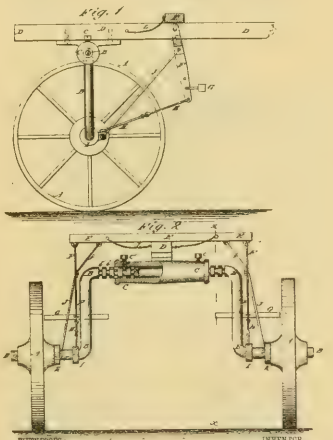
FIG. 4.

ATTEST.
Paul Bakewell
Charles Pickles

INVENTOR.
Stephen Bailey
by Chas S. Moody,
atty

N. T. REMY.
Wheel-Cultivator.

No. 211,786. Patented Jan. 28, 1879.

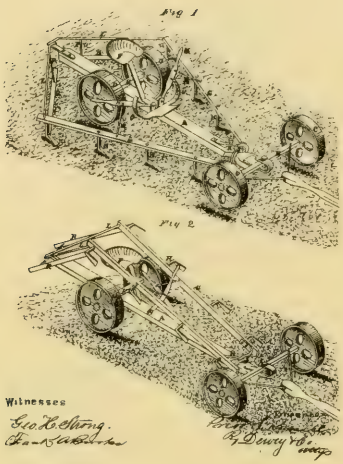


WITNESSES
C. Neuse
E. Redgrave

INVENTOR.
N. T. Remy
BY Munn & Co.
ATTORNEYS.

P. S. RUSSELL.
Coltivator.

No. 211,792. Patented Jan. 28, 1879.



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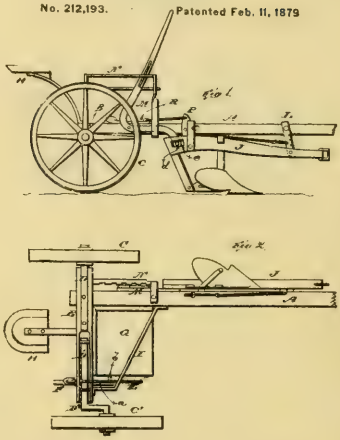
C. C. CLOVER
Sulky-Plow.

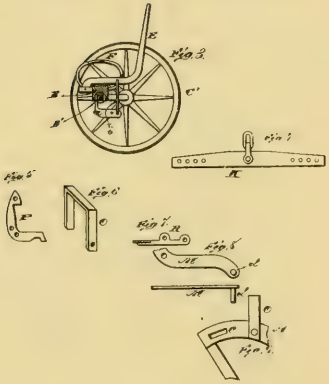
No. 212,193. Patented Feb. 11, 1879



2 Sheets—Sheet 2.

C. C. CLOVER.
Sulky-Plow.

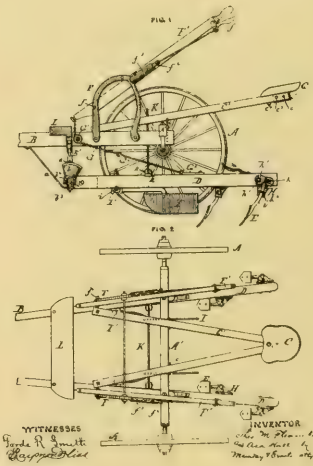
No. 212,193. Patented Feb. 11, 1879.



2 Sheets—Sheet 1

T. M. FLENNIKEN & A. HALL.
Cultivators.

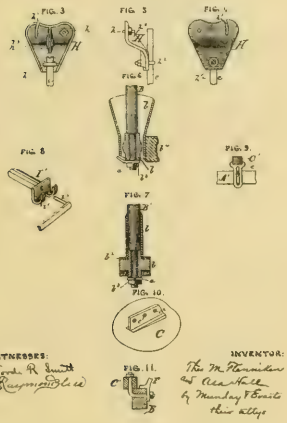
No. 212,546. Patented Feb. 25, 1879.



2 Sheets—Sheet 2.

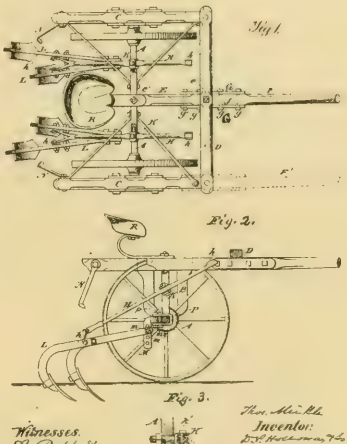
T. M. FLENNIKEN & A. HALL.
Cultivators.

No. 212,546. Patented Feb. 25, 1879.



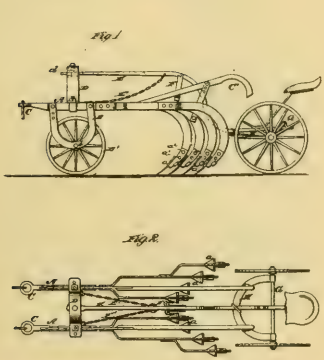
T. MEIKLE.
Carriage-Cultivator.

No. 213,675. Patented Mar. 25, 1879.



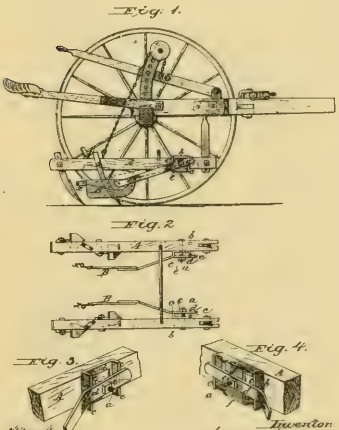
A. SANDERS.
Wheel-Cultivator.

No. 213,943. Patented April 1, 1879.



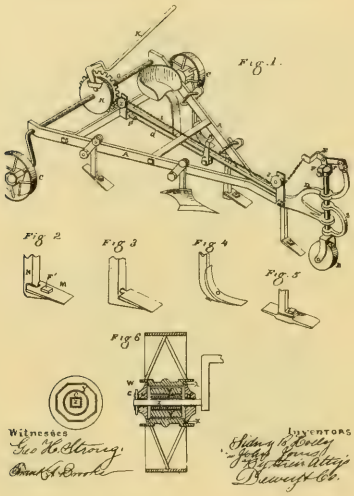
L. DAVIS, Jr.
Cultivator.

No. 214,113. Patented April 8, 1879.



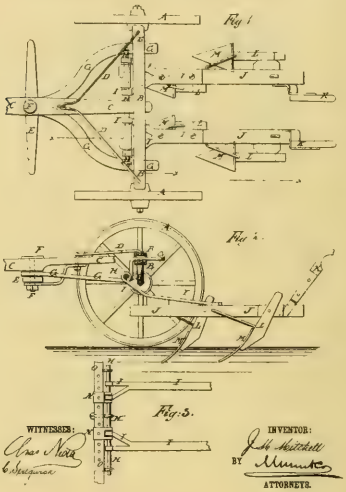
S. B. HOLLY & J. JONES.
Cultivator.

No. 214,138. Patented April 8, 1879.



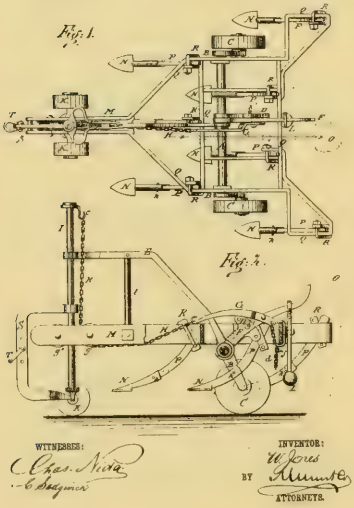
J. M. MITCHELL.
Cultivator.

No. 215,385. Patented May 13, 1879.



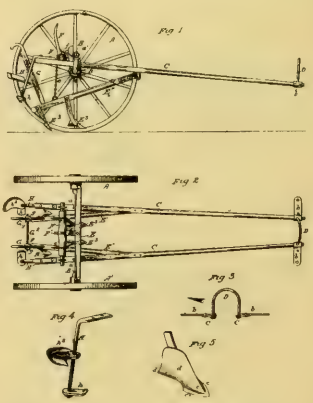
W. JONES.
Cultivator.

No. 215,931. Patented May 27, 1879.



R. S. HARRIS.
Cultivator.

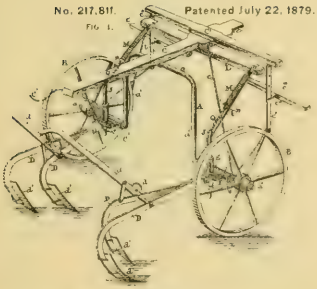
No. 217,282. Patented July 8, 1879.

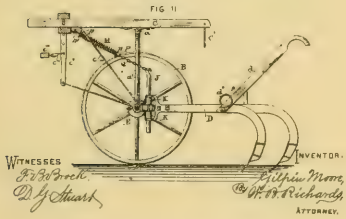


1 Sheets—Sheet 1.

G. MOORE
Cultivator

No. 217,811. Patented July 22, 1879.

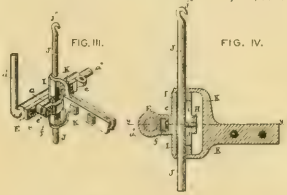


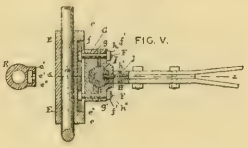


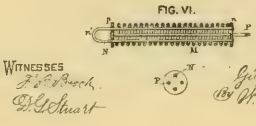
2 Sheets—Sheet 2.

G. MOORE
Cultivator

No. 217,811. Patented July 22, 1879.

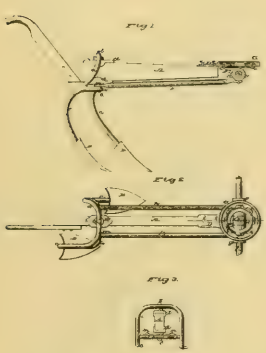






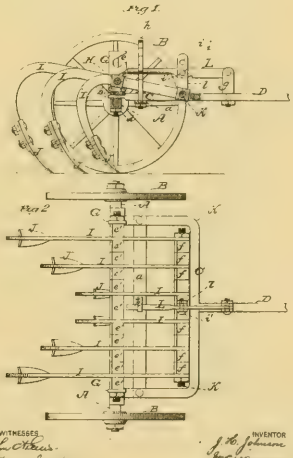
J. WAGNER, Jr.
Wheel-Cultivator.

No. 217,914. Patented July 29, 1879.



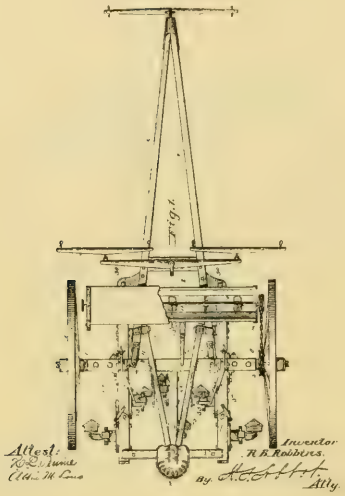
J. H. JOHNSON.
Cultivator.

No. 218,274. Patented Aug. 5, 1879.



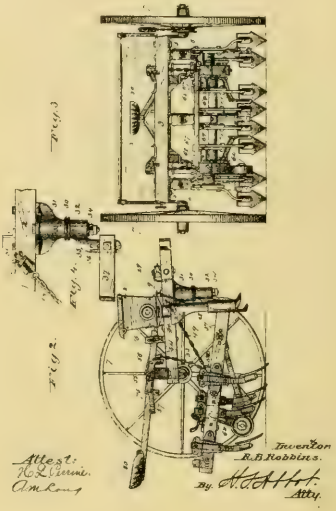
3 Sheets—Sheet 1

R. B. ROBBINS
Cultivator.
No. 218,454. Patented Aug. 12, 1879.



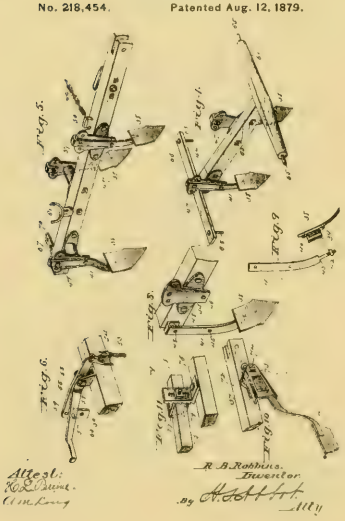
3 Sheets—Sheet 2

R. B. ROBBINS.
Cultivator.
No. 218,454. Patented Aug. 12, 1879.

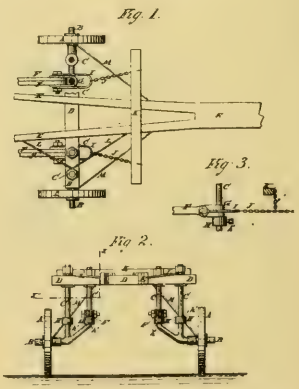


3 Sheets—Sheet 3

R. B. ROBBINS
Cultivator.
No. 218,454. Patented Aug. 12, 1879.



C. HARDGRAVE.
Cultivator.
No. 218,526. Patented Aug. 12, 1879.

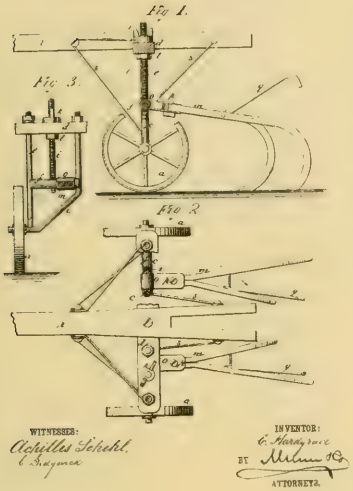


WITNESSES:

INVENTOR:
BY
ATTORNEYS.

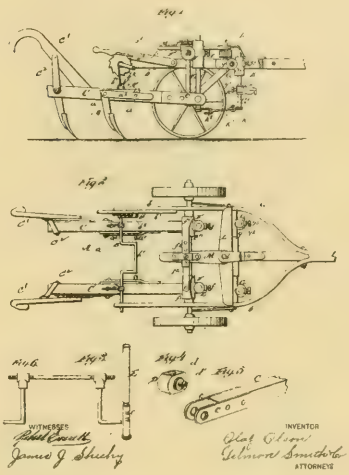
C. HARDGRAVE.
Cultivator.

No. 218,527. Patented Aug. 12, 1879.



O. OLSON
Cultivator.

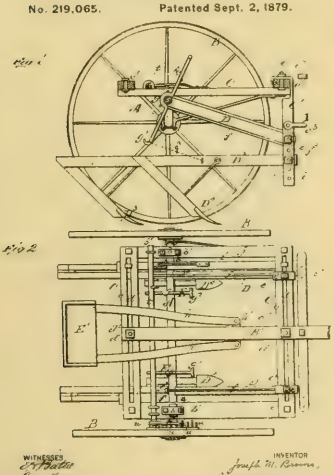
No. 218,561. Patented Aug. 12, 1879



2 Sheets—Sheet 1

J. M. BROWN.
Combined Planter and Cultivator.

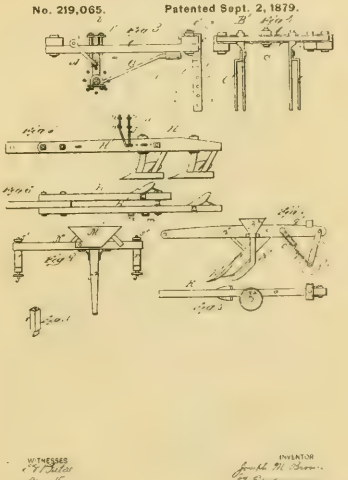
No. 219,065. Patented Sept. 2, 1879.



2 Sheets—Sheet 2

J. M. BROWN.
Combined Planter and Cultivator.

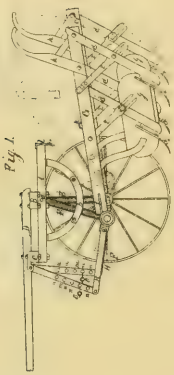
No. 219,065. Patented Sept. 2, 1879.



2 Sheets—Sheet 1

I. UTTER.
Cultivator.

No. 219,326. Patented Sept. 2, 1879.



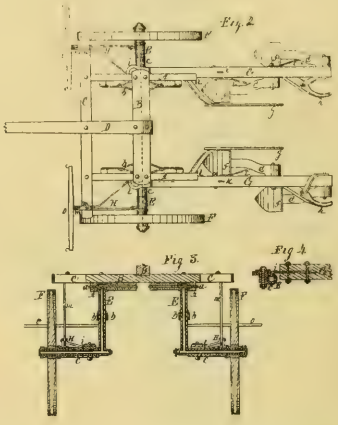
Witnesses.
A. C. Bechel
J. C. Butterfield

Inventor
Isaac Utter
By Jacob Bechel
Atty.

2 Sheets—Sheet 2

I. UTTER.
Cultivator

No. 219,326. Patented Sept. 2, 1879

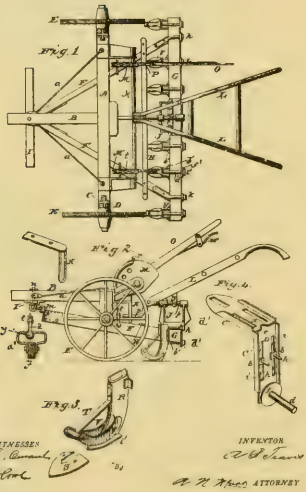


Witnesses
A. C. Bechel
J. C. Butterfield

Inventor
Isaac Utter
By Jacob Bechel
Atty.

A. B. TRAVIS.
Cultivator.

No. 219,882. Patented Sept. 23, 1879.

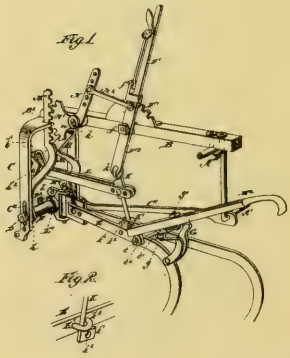


WITNESSES
R. L. Cornell
K. P. Coe

INVENTOR
A. B. Travis
A. N. Ware ATTORNEY

W. P. BROWN.
Cultivator.

No. 220,463. Patented Oct. 14, 1879.

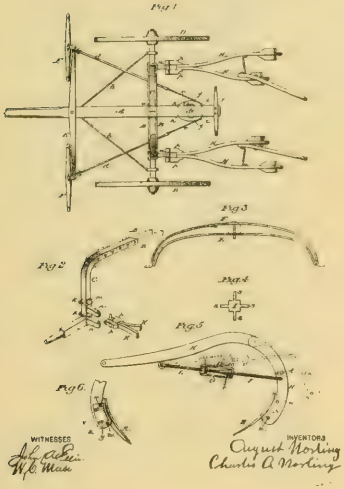


WITNESSES
Robert Everett
Daniel J. Shelby

INVENTOR
William P. Brown
Gilmore, Smith & Co
ATTORNEYS

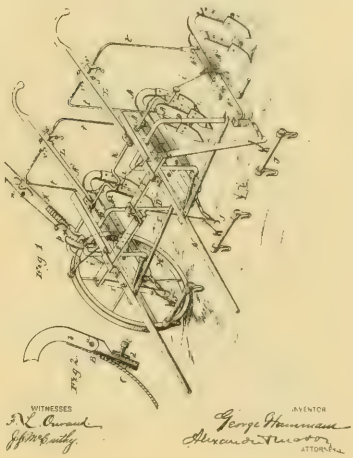
A. & C. A. NORLING.
Cultivator.

No. 220,985. Patented Oct 28, 1879.



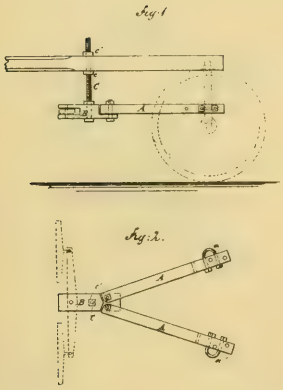
G. HAMMANS.
Cultivator.

No. 221,058. Patented Oct. 28, 1879.



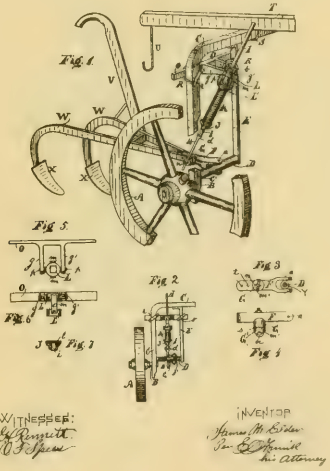
J. DIERDORFF.
Cultivator.

No. 221,289. Patented Nov. 4, 1879.



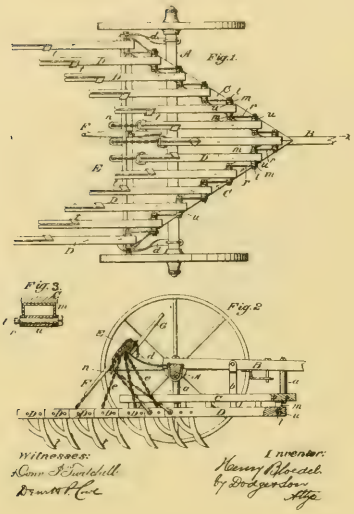
J. M. ELDER.
Cultivator.

No. 222,391. Patented Dec. 9, 1879.



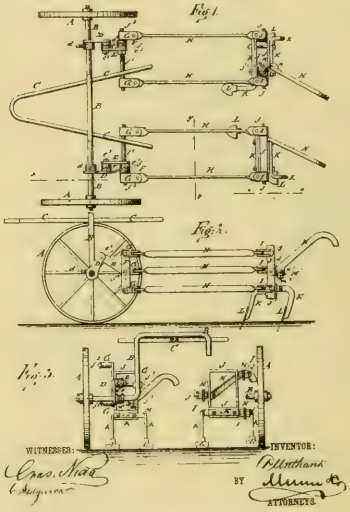
H. BLOEDEL.
Cultivator.

No. 222,446. Patented Dec. 9, 1879.



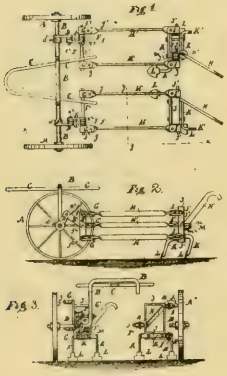
D. UNTHANK.
Cultivator.

No. 222,550. Patented Dec. 9, 1879



D. UNTHANK,
Assignor of one-half to F. A. COPPER.
Cultivator.

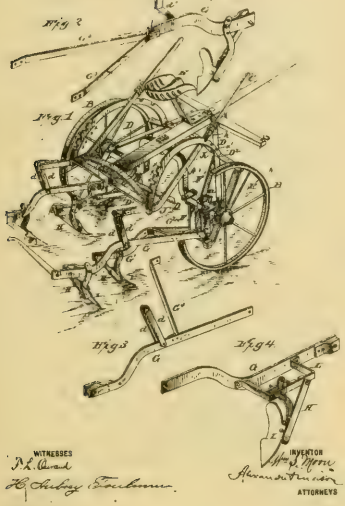
No. 9,607. Reissued March 15, 1881.



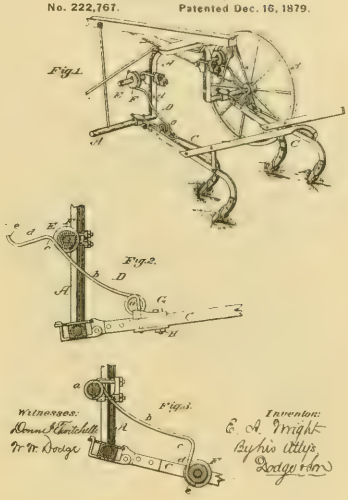
W. COPPAGE.
Plow.

No. 222,576. Patented Dec. 16, 1879.

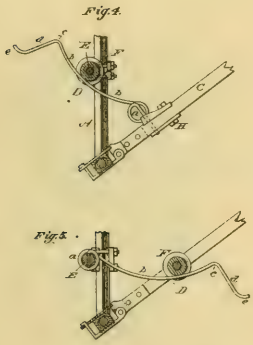
W. S. MOON
Cultivator
No. 222,719 Patented Dec. 16, 1879.



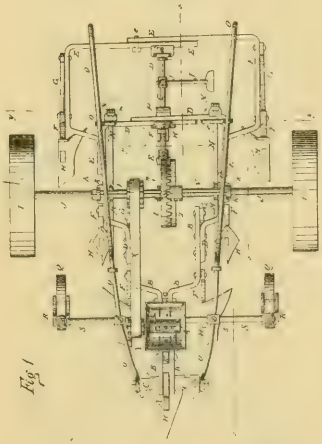
2 Sheets—Sheet 1
E. A. WRIGHT
Wheel-Cultivator
No. 222,767. Patented Dec. 16, 1879.



2 Sheets—Sheet 2
E. A. WRIGHT.
Wheel-Cultivator.
No. 222,767. Patented Dec. 16, 1879.



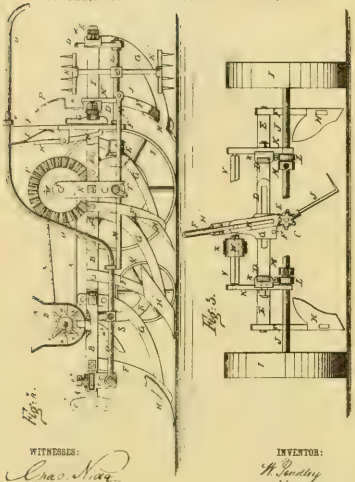
W. PENDLEY,
Cultivator.
No. 222,940. Patented Dec. 23, 1879.
2 Sheets—Sheet 1.



2 Sheets—Sheet 2

W. PENDLEY
Cultivator.

No. 222,940. Patented Dec. 23, 1879.



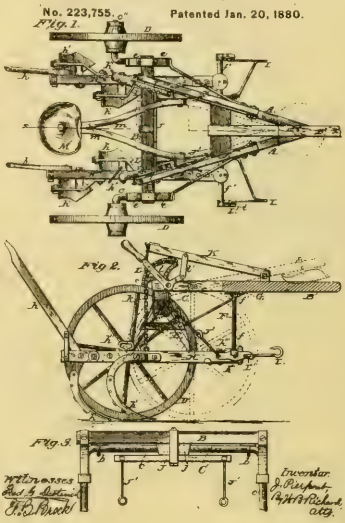
WITNESSES:
Chas. Nash
Sugrue

INVENTOR:
W. Pendley
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1

J. PIERPONT.
Combined Riding and Walking Cultivators.

No. 223,755. Patented Jan. 20, 1880.

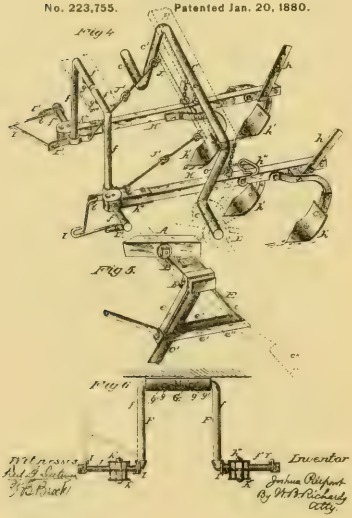


Witnesses
Inventor
J. Pierpont
By H. B. Richards
Atty.

2 Sheets—Sheet 2

J. PIERPONT.
Combined Riding and Walking Cultivators.

No. 223,755. Patented Jan. 20, 1880.

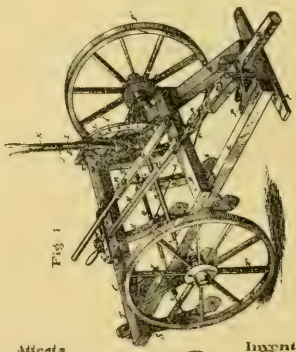


Witnesses
Inventor
Joshua Pierpont
By H. B. Richards
Atty

2 Sheets—Sheet 1.

B. M. ROOT.
Cultivator

No. 223,954. Patented Jan. 27, 1880.

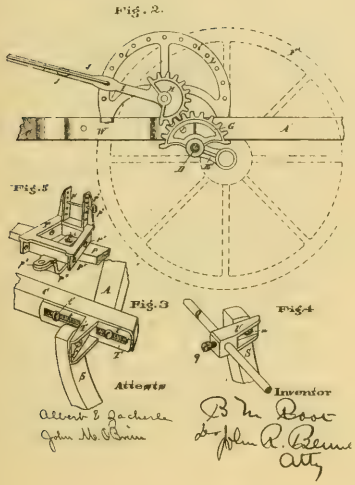


Attest:
Inventor
B. M. Root
for John R. Blemer
Atty.

2 Sheets—Sheet 2.

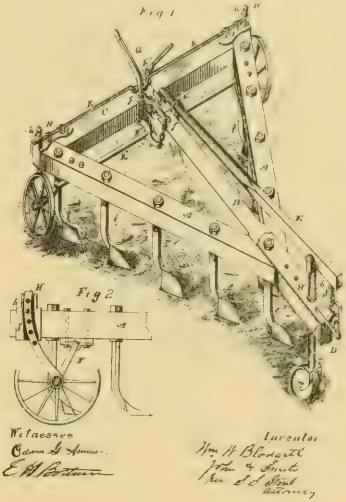
B. M. ROOT.
Cultivator.

No. 223,954. Patented Jan. 27, 1880.



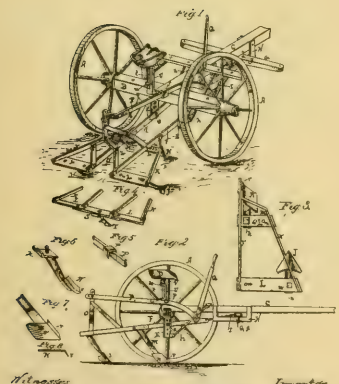
W. W. BLODGETT & J. H. SMITS.
Cultivator.

No. 223,982. Patented Feb. 3, 1880.



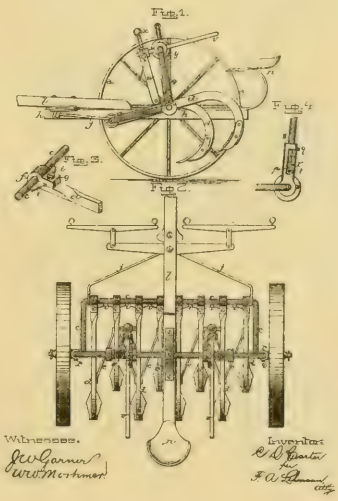
S. G. POMEROY.
Cultivator.

No. 224,039. Patented Feb. 3, 1880.



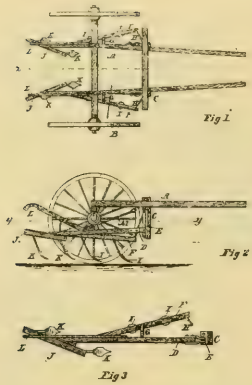
C. D. CARTER.
Cultivator.

No. 224,074. Patented Feb. 3, 1880.



E. & E. C. SLOSSON
Cultivator.

No. 224,111. Patented Feb. 3, 1880

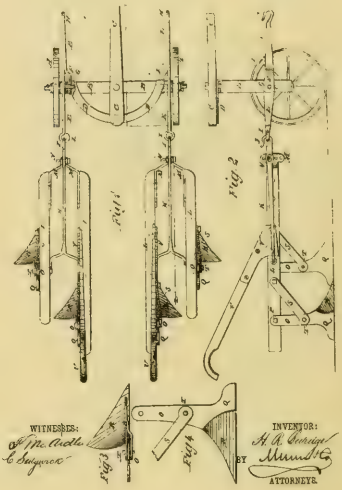


Witnesses
H. C. Enlid
Jno. C. MacGregor

Inventors
Eugene Slosson
Edwin C. Slosson
By Coburn & Thacher
Attorneys

H. H. BURDGE
Sulky-Cultivator

No. 224,139. Patented Feb. 3, 1880

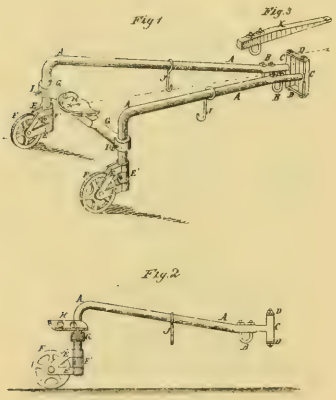


WITNESSES:
A. M. Wells
E. Sargent

INVENTOR:
H. H. Burdge
BY Munn & Co.
ATTORNEYS.

H. COLE.
Riding Attachment for Cultivators.

No. 224,390. Patented Feb. 10, 1880.

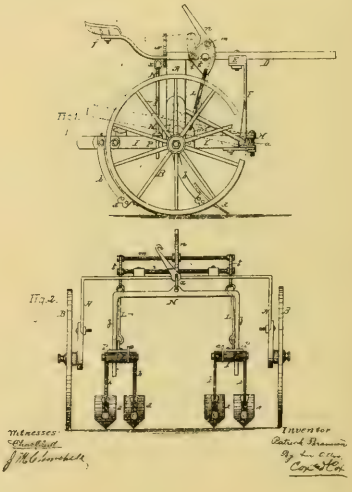


WITNESSES:
Henry A. Wells
E. Sargent

INVENTOR:
H. Cole
BY Munn & Co.
ATTORNEYS.

P. BRANNAN.
Corn-Plow.

No. 224,639. Patented Feb. 17, 1880.

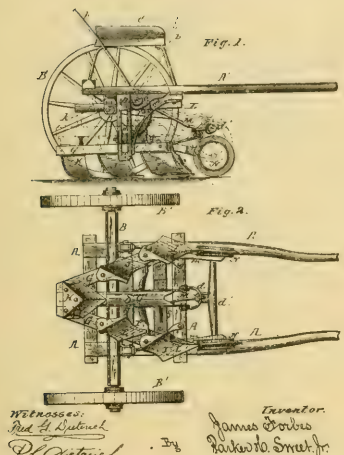


Witnesses:
Chas. Ball
J. H. C. Lowell

Inventor
Patrick Brannan
By L. C. Ober
Cox & Ober

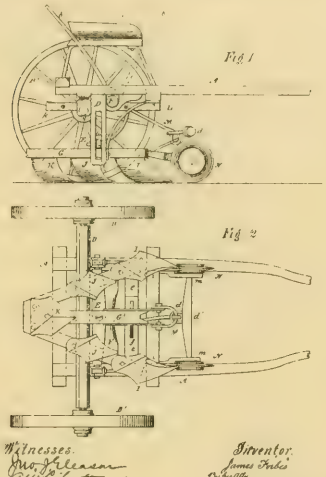
J. FORBES.
Cultivator.

No. 224,773. Patented Feb. 24, 1880.



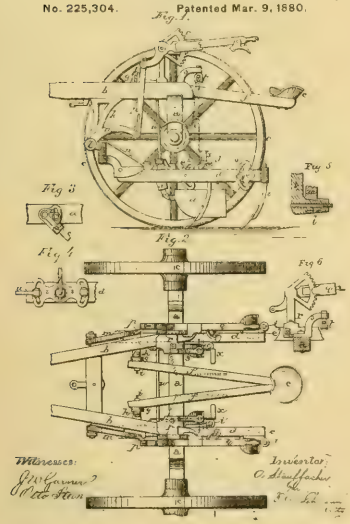
J. FORBES.
Cultivator and Horse Hoe.

No. 9,530. Reissued Jan. 11, 1881.



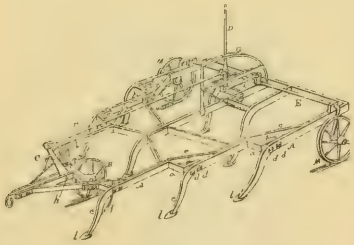
A. STAUFFACHER.
Cultivator.

No. 225,304. Patented Mar. 9, 1880.



D. M. JOHNSTON.
Cultivator.

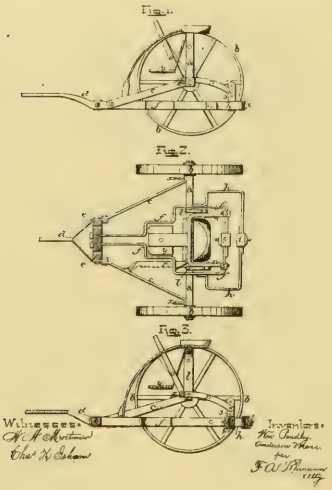
No. 226,321. Patented April 6, 1880.



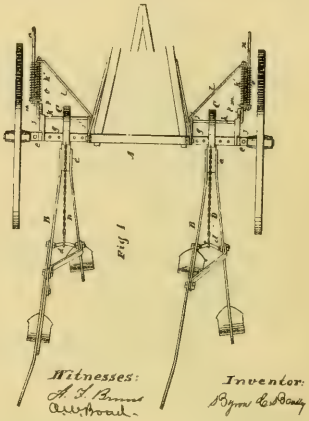
Witnesses

Inventor

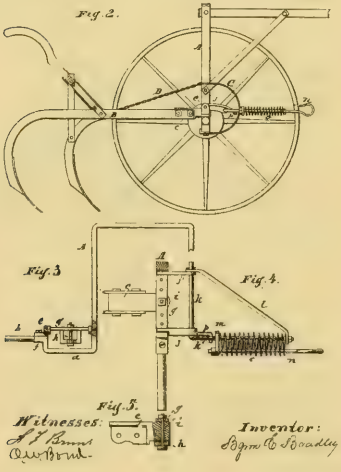
W. PENDLEY & A. MOSS.
Wheel Plow and Cultivator
No. 226,674. Patented April 20, 1880



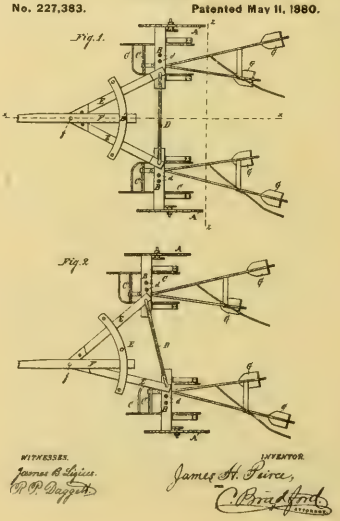
2 Sheets—Sheet 1
B. C. BRADLEY.
Cultivator.
No. 226,833. Patented April 27, 1880.



2 Sheets—Sheet 2
B. C. BRADLEY.
Cultivator.
No. 226,833. Patented April 27, 1880.



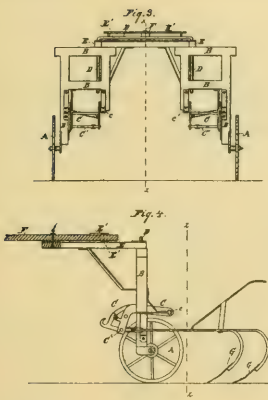
2 Sheets—Sheet 1
J. H. PEIRCE.
Cultivator.
No. 227,383. Patented May 11, 1880.



2 Sheets—Sheet 2.

J. H. PEIRCE.
Cultivator.

No. 227,383 Patented May 11, 1880.



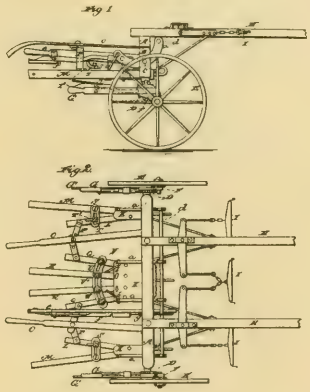
WITNESSES
James B. Lyons
P. P. Dazzett

INVENTOR
James H. Peirce,
per C. Bradford
ATTORNEY

(No Model.) 2 Sheets—Sheet 1

O. J. KING
Cultivator.

No. 227,543. Patented May 11, 1880.



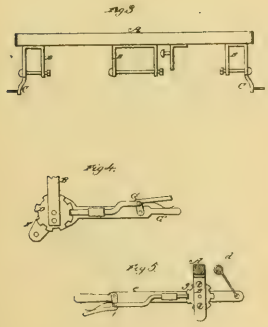
WITNESSES
Robt. Everett
Wm. H. Page

INVENTOR
Orlando J. King
Gilmore Smith & Co.
ATTORNEYS

(No Model.) 2 Sheets—Sheet 2

O. J. KING.
Cultivator.

No. 227,543. Patented May 11, 1880.

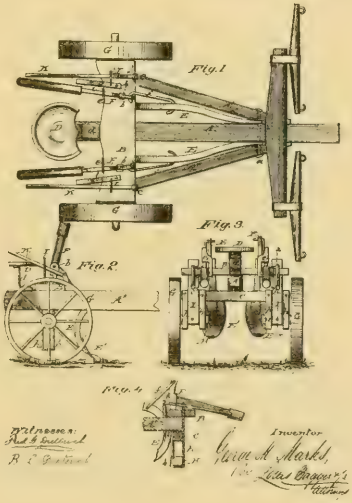


WITNESSES
Robt. Everett
Wm. H. Page

INVENTOR
Orlando J. King
Gilmore Smith & Co.
ATTORNEYS

G. M. MARKS.
Sulky-Plow.

No. 228,659. Patented June 8, 1880



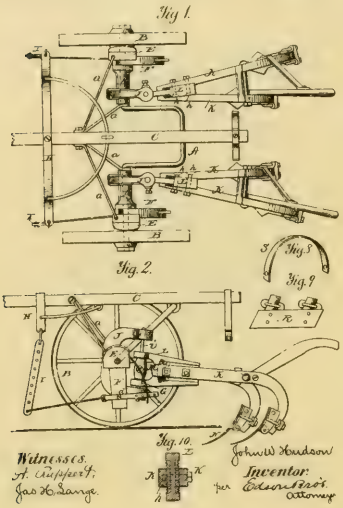
Witnesses:
Robt. H. Gulland
R. E. Dallas

Inventor
Geo. M. Marks,
per Geo. Bancroft & Sons
Attorneys

(No Model.) 2 Sheets—Sheet 1.

J. W. HUDSON.
Wheel Cultivator.

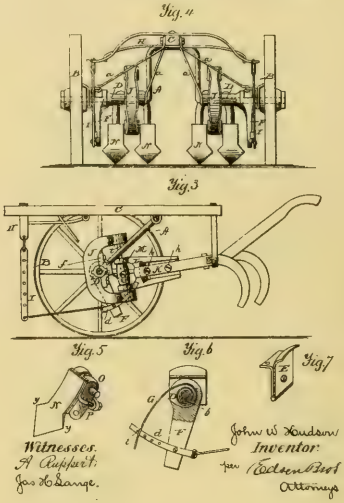
No. 229,534. Patented July 6, 1880.



(No Model.) 2 Sheets—Sheet 2.

J. W. HUDSON.
Wheel Cultivator.

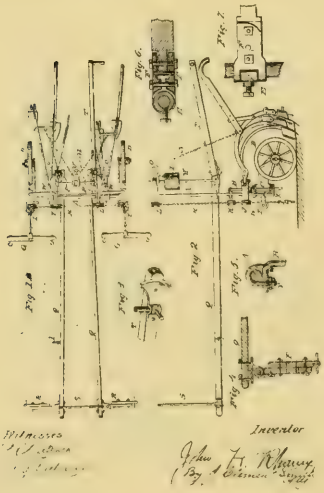
No. 229,534. Patented July 6, 1880.



(No Model.) 2 Sheets—Sheet 1

J. H. RHAMY.
Wheel Cultivator.

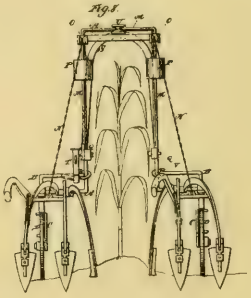
No. 230,057. Patented July 13, 1880.



(No Model.) 2 Sheets—Sheet 2.

J. H. RHAMY.
Wheel Cultivator.

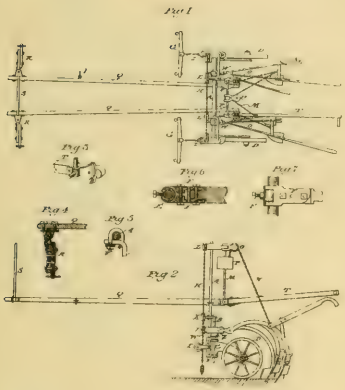
No. 230,057. Patented July 13, 1880.



2 Sheets—Sheet 1

J. H. EHAMY.
Wheel Cultivator.

No. 9,511. Reissued Dec. 21, 1880.



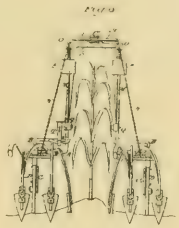
WITNESSES
Jno. A. Ellis
Philip Phillips

INVENTOR
Jno. H. Ehamy
by Cadwalader & Co.
Its ATTORNEYS

2 Sheets—Sheet 2

J. H. EHAMY
Wheel Cultivator.

No. 9,511. Reissued Dec. 21, 1880.



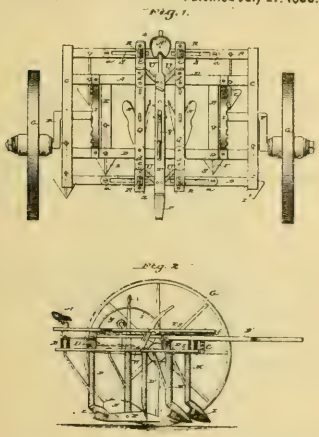
WITNESSES
Jno. A. Ellis
Philip Phillips

INVENTOR
Jno. H. Ehamy
by Cadwalader & Co.
Its ATTORNEYS

2 Sheets—Sheet 1

J. B. GRACEY.
Agricultural Implement.

No. 230,414. Patented July 27, 1880.



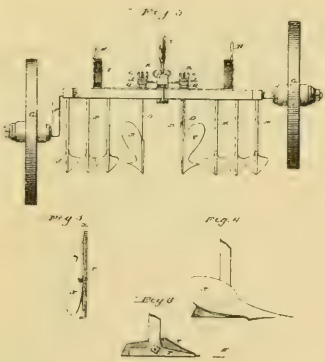
Witness
T. Milling
W. C. Anderson

James B. Gracey
Inventor
By H. C. Abbot
Atty.

2 Sheets—Sheet 2

J. B. GRACEY.
Agricultural Implement.

No. 230,414. Patented July 27, 1880.



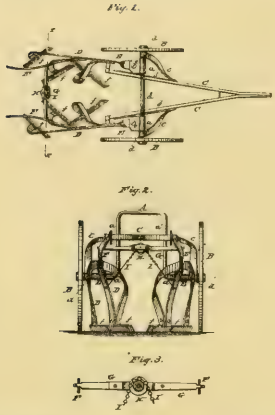
Witness
T. Milling
W. C. Anderson

James B. Gracey
Inventor
By H. C. Abbot
Atty.

(No Model.)

E. D. POWELL.
Cultivator.

No. 231,846. Patented Aug. 31, 1880.



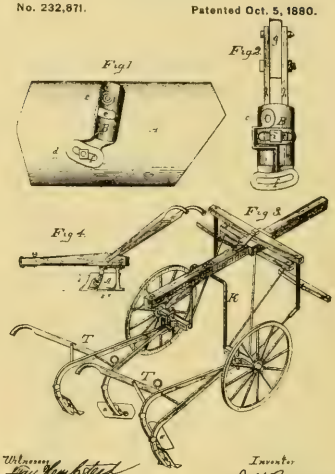
Witnesses:
Fred. G. Detrich.
P. L. Detrich

Inventor:
Ezekiel D. Powell.
By Atty
Dewitt C. Allen

(No Model.)

J. H. BAILEY.
Cultivator.

No. 232,871. Patented Oct. 5, 1880.

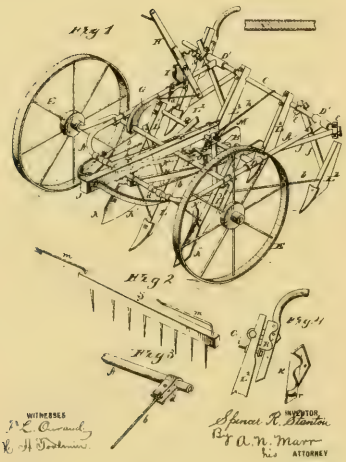


Witness:
Guy Humphstead
Geo. H. Benton

Inventor:
J. H. Bailey

S. R. STANTON.
Cultivator.

No. 233,379. Patented Oct. 19, 1880.



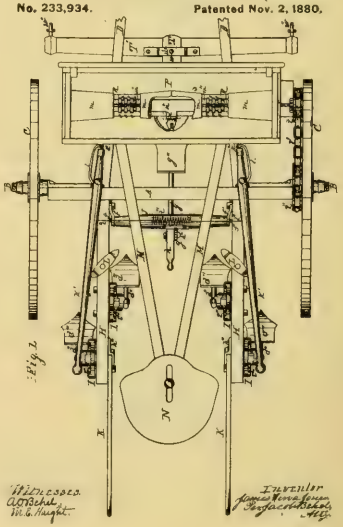
WITNESSES
P. L. Crosby
C. H. Bodeman

INVENTOR
Spencer R. Stanton
By A. N. Marr
his ATTORNEY

(Model.) 3 Sheets—Sheet 1.

J. H. JONES.
Combined Cultivator and Seeder.

No. 233,934. Patented Nov. 2, 1880.



Witnesses.
A. O. Behel
W. G. Haight.

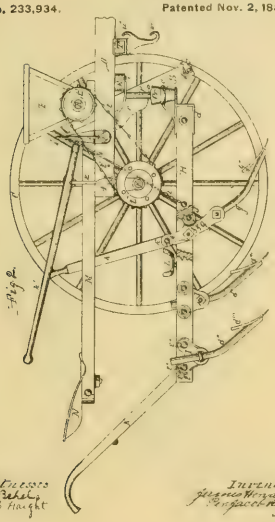
Inventor
James Henry Jones
per Jacob Behel
Atty.

(Model.) 3 Sheets—Sheet 1

J. H. JONES

Combined Cultivator and Seeder

No. 233,934. Patented Nov. 2, 1880.



Witnesses
A. O. Zebel
M. E. Haight

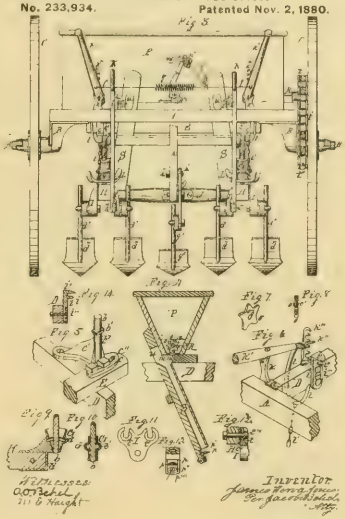
Inventor
Jesse H. Jones
By Joseph Rodgers
Atty.

(Model.) 3 Sheets—Sheet 3

J. H. JONES

Combined Cultivator and Seeder

No. 233,934. Patented Nov. 2, 1880.



Witnesses
A. O. Zebel
M. E. Haight

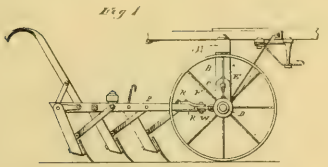
Inventor
Jesse H. Jones
By Joseph Rodgers
Atty.

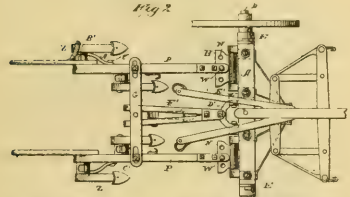
(No Model.) 2 Sheets—Sheet 1

J. MANGAS

Sulky Plow

No. 234,046. Patented Nov. 2, 1880.





Witnesses
Daniel L. Ormond
H. Aubrey Bodman

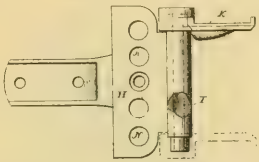
Inventor
J. Mangas
By Alex. Mason
Atty.

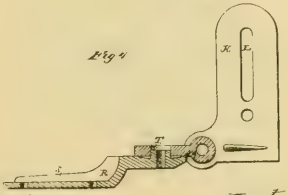
(No Model.) 2 Sheets—Sheet 2

J. MANGAS

Sulky Plow.

No. 234,046. Patented Nov. 2, 1880.





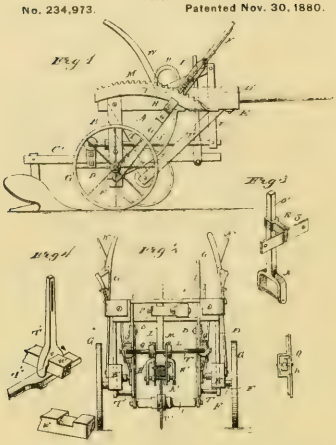
Witnesses
D. L. Ormond
H. Aubrey Bodman

Inventor
J. Mangas
By Alexander Mason
Atty.

(No Model.)

L. G. FATH.
Cultivator.

No. 234,973. Patented Nov. 30, 1880.



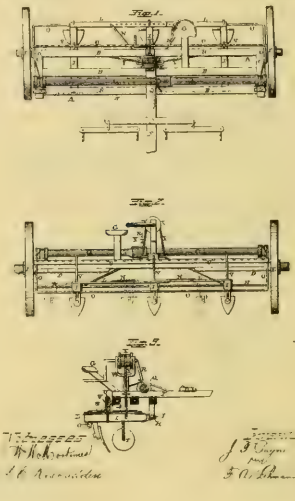
Witnesses.
Frank L. Ourand
J. J. McCarthy

Inventor.
L. G. Fath
By Alexander Dunsmuir
Atty.

(No Model.)

J. T. PAYNE.
Wheel Cultivator

No. 235,012. Patented Nov. 30, 1880.



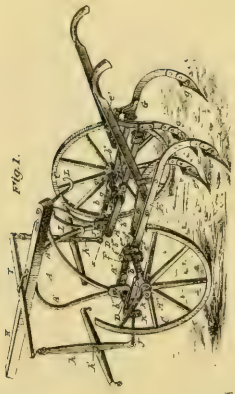
Witnesses.
W. Hollingsworth
J. C. Newcomb

Inventor
J. T. Payne
per
F. A. Lehmann
Atty.

2 Sheets—Sheet 1.

J. W. SWICKARD.
Cultivator.

No. 235,393. Patented Dec. 14, 1880.



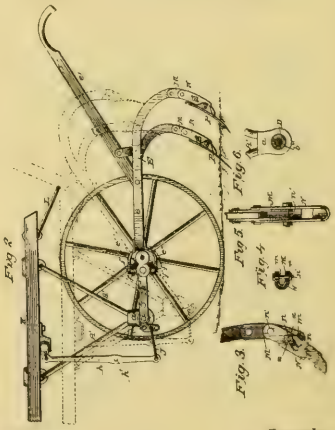
Witnesses.
Fred G. Dietrich
B. L. Dietrich

Inventor
Jno. W. Swickard
O. B. & B. Richards
Attys.

2 Sheets—Sheet 2.

J. W. SWICKARD.
Cultivator.

No. 235,393. Patented Dec. 14, 1880.



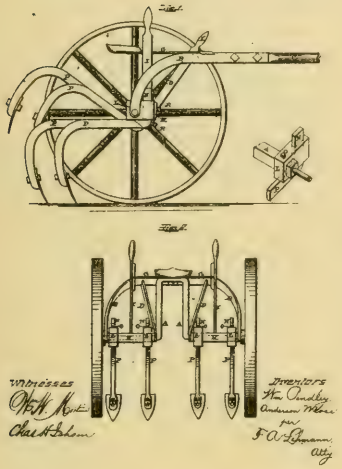
Witnesses.
Fred G. Dietrich
B. L. Dietrich

Inventor
John W. Swickard
per O. B. & B. Richards
Attys.

(No Model.) 2 Sheets—Sheet 1

W. PENDLEY & A. MOSS.
Wheel Cultivator.

No. 235,452. Patented Dec. 14, 1880.



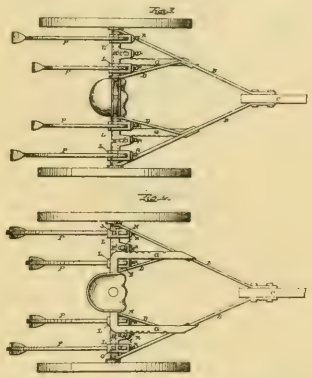
Witnesses
Chas. H. Salem

Inventors
Wm. Pendley
Andrew Moss
per
F. A. Lehmann
Atty

(No Model.) 2 Sheets—Sheet 2

W. PENDLEY & A. MOSS.
Wheel Cultivator

No. 235,452. Patented Dec. 14, 1880.



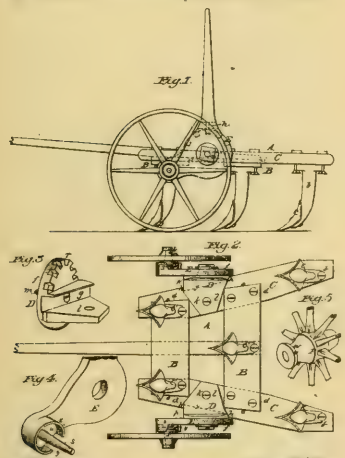
Witnesses
Wm. H. McClintock
Wm. H. Kern

Inventors
Wm. Pendley
Andrew Moss
per
F. A. Lehmann
Atty

(No Model.)

J. VAN BUREN.
Wheel Cultivator.

No. 235,593. Patented Dec. 14, 1880.



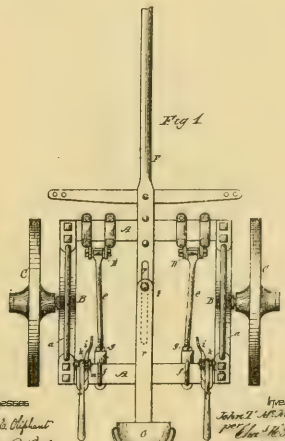
WITNESSES
Geo. Hall
Philip C. Masi

INVENTOR
John Van Buren
per
F. C. Wm. Anderson
Jun ATTORNEY

(No Model.) 2 Sheets—Sheet 1

J. T. McNORTON.
Plow Carriage.

No. 235,692. Patented Dec. 21, 1880.



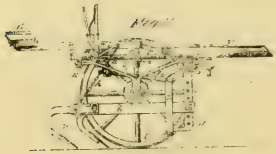
Witnesses
Nat. C. Blackmer
Geo. R. Porter

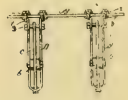
Inventor
John T. McNorton
per
Chas. H. Foster
Attorney

(No Model.) 2 Sheets—Sheet 2

J. T. McNORTON.
Plow Carriage

No. 235,692. Patented Dec. 21, 1880.





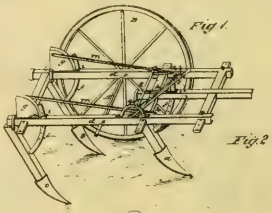
Witnesses
Geo. B. Porter

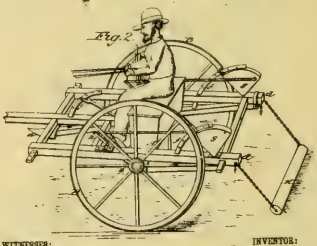
Inventor
John T. McNorton
per Chas. H. Shaller
Attorney

(No Model.)

C. NIEDERAUER.
Cultivator.

No. 236,243. Patented Jan. 4, 1881.





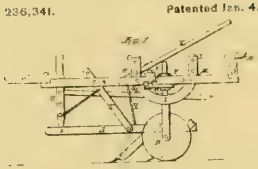
WITNESSES:
Thos. McCartney
C. Bergnick

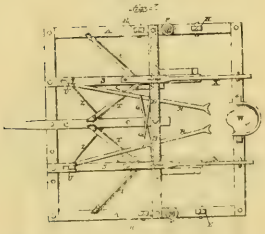
INVENTOR:
C. Niederauer
BY Munn & Co.
ATTORNEYS.

(No Model.) 2 Sheets—Sheet 1.

F. J. LAMPTON.
Wheel Cultivator.

No. 236,341. Patented Jan. 4, 1881.

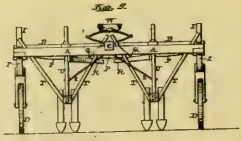




(No Model.) 2 Sheets—Sheet 2.

F. J. LAMPTON.
Wheel Cultivator.

No. 236,341. Patented Jan. 4, 1881.



Witnesses
M. H. Kastner
A. C. Kasheldin

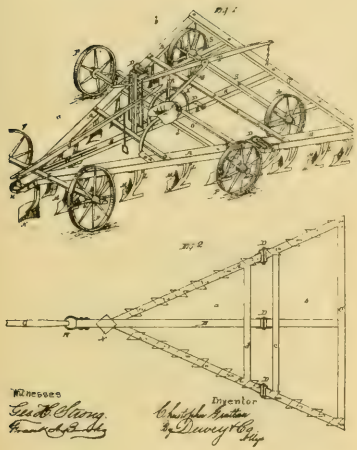
Inventor
F. J. Lampton
per
F. A. Seymour
Atty

CULTIVATORS WHEEL OR SULKY.

(No Model.) 2 Sheets—Sheet 1

C. GRATTAN.
Plow.

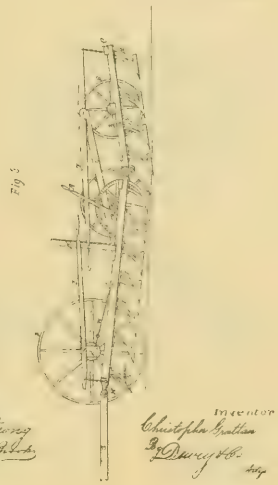
No. 237,179. Patented Feb. 1, 1881.



(No Model.) 2 Sheets—Sheet 2

C. GRATTAN.
Plow.

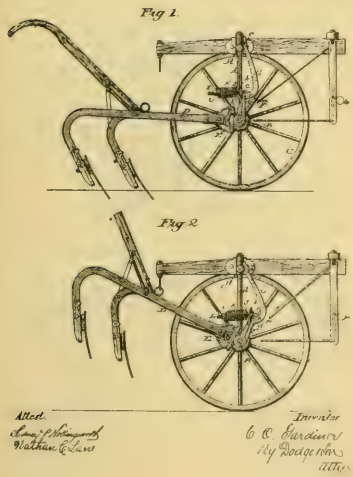
No. 237,179. Patented Feb. 1, 1881.



(Model.) 2 Sheets—Sheet 1

C. O. GARDINER.
Cultivator.

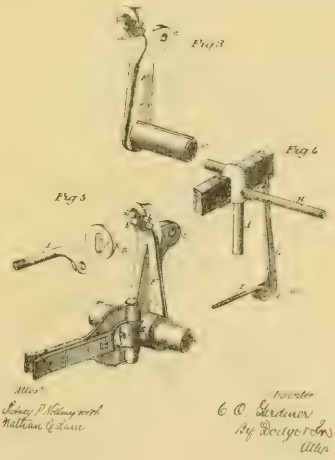
No. 237,739. Patented Feb. 15, 1881.



(Model.) 2 Sheets—Sheet 2

C. O. GARDINER
Cultivator

No. 237,739. Patented Feb. 15, 1881.

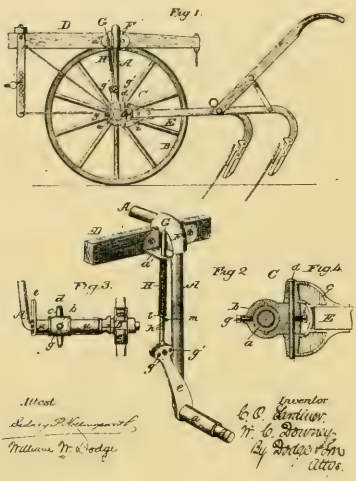


(No Model.)

C. O. GARDINER & W. C. DOWNEY.

Cultivator.

No. 237,740. Patented Feb. 15, 1881.

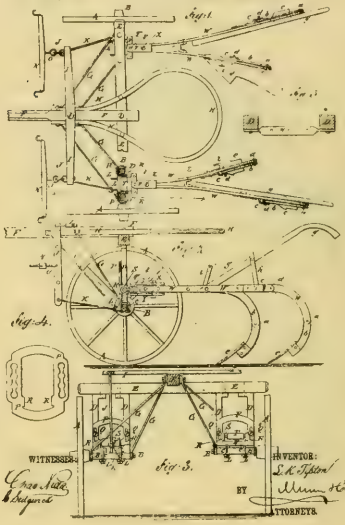


(No Model.)

L. K. TIPTON.

Cultivator.

No. 238,989. Patented March 15, 1881.

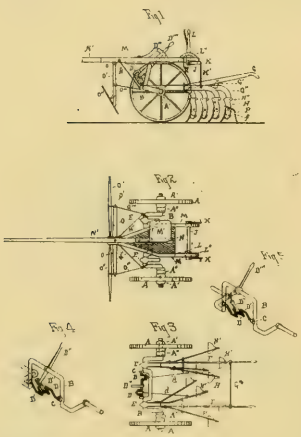


(No Model.) 3 Sheets—Sheet 1.

J. L. BACHMAN.

Cultivator.

No. 240,571. Patented April 26, 1881.

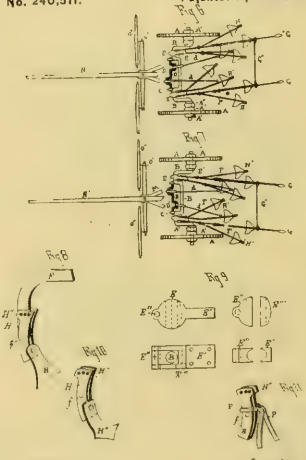


(No Model.) 2 Sheets—Sheet 2

J. L. BACHMAN.

Cultivator.

No. 240,571. Patented April 26, 1881.



(Model.) 3 Sheets—Sheet 1

N. DULANEY.
Sulky Cultivator.

No. 241,319. Patented May 10, 1881.

Fig. 1.

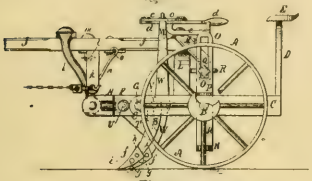
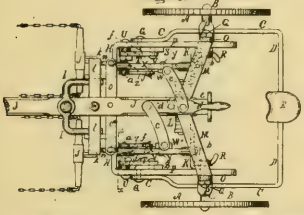


Fig. 2.



WITNESSES:
N. C. Wilson.
C. Wagner

INVENTOR:
N. Dulaney
BY Munn & Co.
ATTORNEYS.

(Model.) 3 Sheets—Sheet 2

N. DULANEY.
Sulky Cultivator.

No. 241,319. Patented May 10, 1881.

Fig. 3.

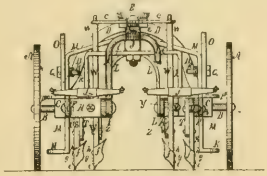
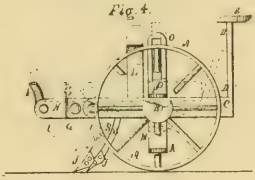


Fig. 4.



WITNESSES:
H. C. Whitney
C. Wagner

INVENTOR:
N. Dulaney
BY Munn & Co.
ATTORNEYS.

(No Model.)

C. MENDENHALL.
Cultivator.

No. 241,687. Patented May 17, 1881.

Fig. 1

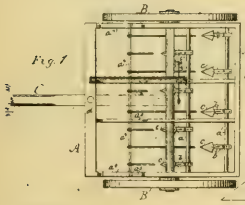
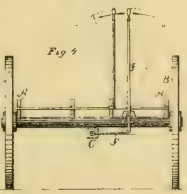


Fig. 3

Fig. 2

Fig. 4



WITNESSES:
John Thomson
A. G. Lyne

INVENTOR:
C. Mendenhall
BY Munn & Co.
ATTORNEYS.

(Model.)

J. JOHANESON.
Sulky Cultivator.

No. 242,134. Patented May 31, 1881.

Fig 1

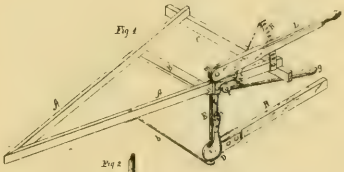


Fig 2

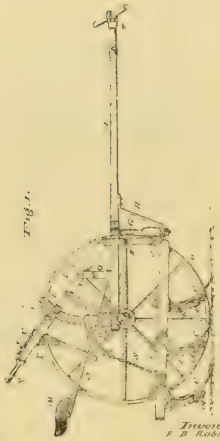
Witnesses.
C. Butterfield
Oliver Geely

Inventor.
James Johanson

(Model.) 3 Sheets—Sheet 1

R. B. ROBBINS.
Cultivator

No. 242,478. Patented June 7, 1881

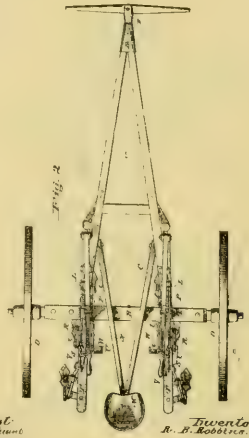


Attest
Inventor
R. B. Robbins
By
Atty

(Model.) 3 Sheets—Sheet 2

R. B. ROBBINS.
Cultivator.

No. 242,478. Patented June 7, 1881.

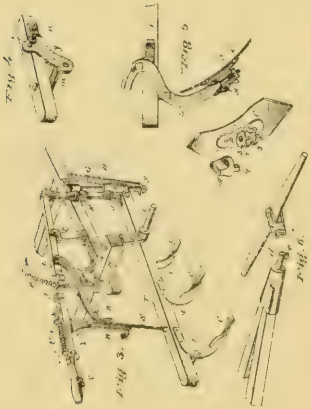


Attest
Inventor.
R. B. Robbins.
By
Atty.

(Model.) 3 Sheets—Sheet 3

R. B. ROBBINS.
Cultivator.

No. 242,478. Patented June 7, 1881.

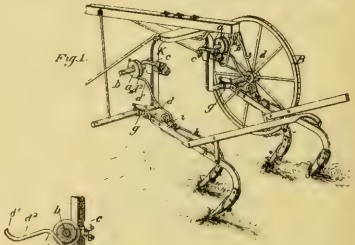


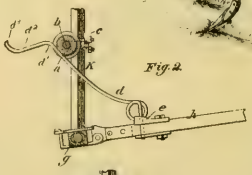
Attest
Inventor
R. B. Robbins
By
Atty.

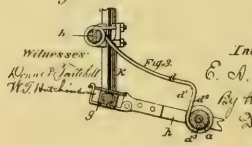
2 Sheets—Sheet 1

E. A. WRIGHT.
Cultivator.

No. 242,497. Patented June 7, 1881.





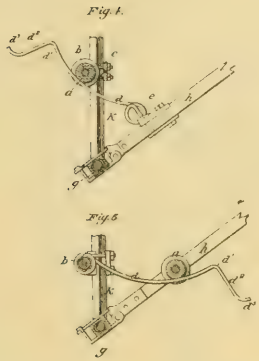


Witnesses:
George F. Mitchell
W. J. Hitchcock

Inventor:
E. A. Wright
By his Attys
Dodger & Co.

2 Sheets—Sheet 2

E. A. WRIGHT.
Cultivator.
No. 242,497. Patented June 7, 1881.

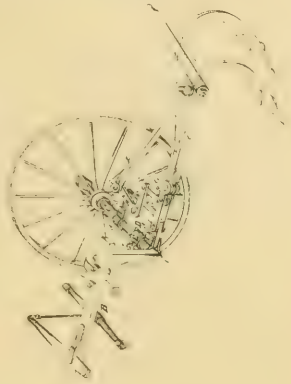


Witnesses:
Chas. S. Fairchild
Geo. Maher

Inventor.
E. A. Wright.
By his Attys.
Dodge & Sons

(Model.)

I. S. MUSSETTER.
Cultivator.
No. 242,678. Patented June 7, 1881.

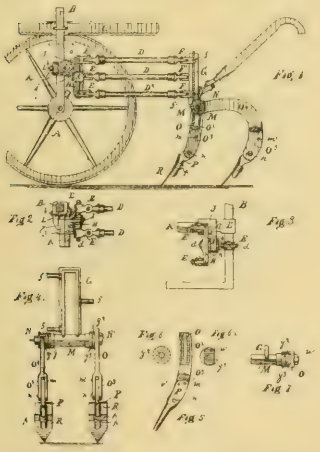


WITNESSES:
Jas. B. Connolly
Chas. Connolly

INVENTOR
Isaac S. Mussetter
By Connolly Bros.
Attorneys

(No Model.)

D. UNTHANK.
Two Horse Cultivator.
No. 243,090. Patented June 21, 1881.

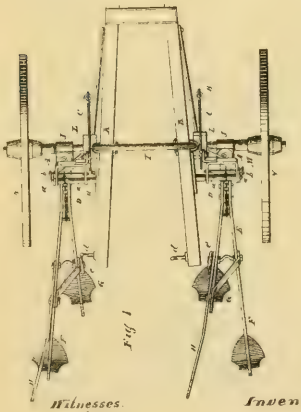


WITNESSES:
Geo. H. Strauss

INVENTOR.
Daniel Unthank
By C. E. Mills
Atty.

3 Sheets—Sheet 1

C. A. HAGUE.
Cultivator.
No. 243,123 Patented June 21, 1881.



Witnesses.
Q. L. Bond.
J. H. Wheeler

Inventor.
Charles A. Hague

3 Sheets—Sheet 1.

C. A. HAGUE.
Cultivator.

No. 243,123. Patented June 21, 1881.

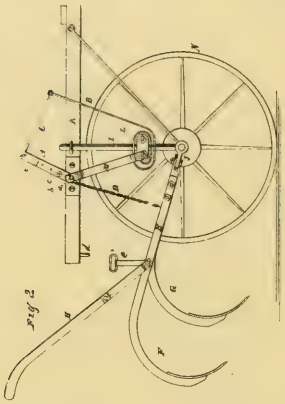


Fig 2

Witnesses:
O. W. Bond.
H. W. Munsey.

Inventor
Charles A. Hague

3 Sheets—Sheet 2.

C. A. HAGUE.
Cultivator.

No. 243,123. Patented June 21, 1881.

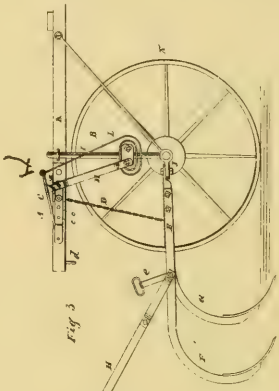


Fig 3

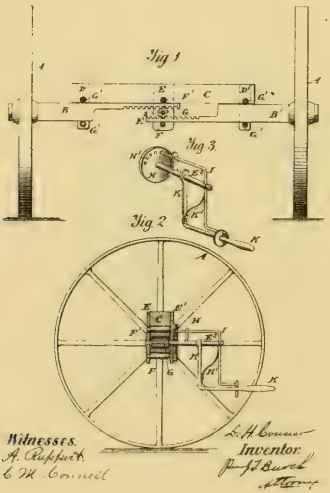
Witnesses:
O. W. Bond.
H. W. Munsey.

Inventor
Charles A. Hague

(No Model.)

L. H. CONNER.
Cultivator.

No. 243,216. Patented June 21, 1881.



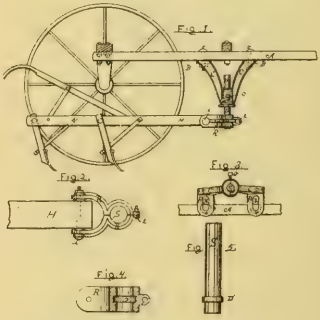
Witnesses.
A. Clapp
C. M. Connell

L. H. Conner
Inventor:
per J. J. Burch
Attorney

(No Model.)

H. W. CHAMBERLAIN.
Cultivator.

No. 243,507. Patented June 28, 1881.



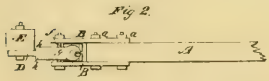
Witnesses
Geo. J. Munroe
J. D. Simonds

Inventor
H. W. Chamberlain

W. S. Weir, Jr.

Wheel Cultivator

No. 53,215. Patented Mar. 13, 1866.

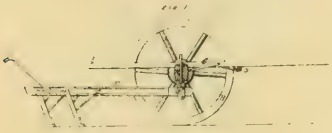


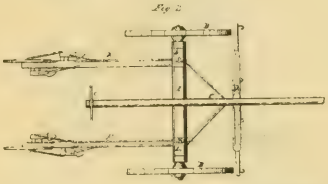
WITNESSES:
W. Brewin
Thos. Tuach.

INVENTOR.
W. S. Weir
By Munn & Co.
Attys.

[illegible]

No. [illegible] Patented [illegible]





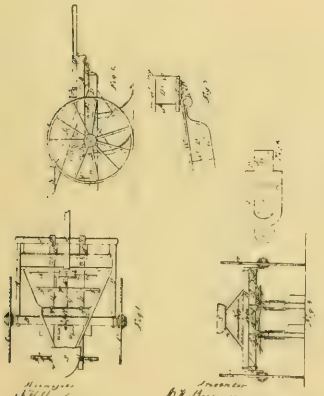
Witnesses
W. Brewin
[illegible]

Inventors
[illegible]
By Munn & Co.
Attys.

J. W. Boosinger.

Wheel Cultivator.

No. 57,000. Patented Sept. 4, 1866.



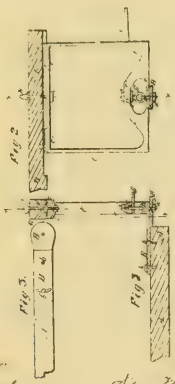
Witnesses
J. Wilkins
Thos. Tuach

Inventor
J. W. Boosinger
By his Attorney
M. Munn & Co.

S. M. Whitney.

Wheel Cultivator.

No. 59,698. Patented Nov. 13, 1866.



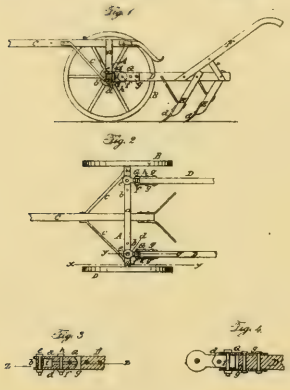
Witnesses:
J. A. Jackson
W. Brown

Inventor
Alex. M. Whitney
By Munn & Co.
Attorneys.

W. E. SMITH.

Wheel Cultivator.

No. 67,078. Patented July 23, 1867.



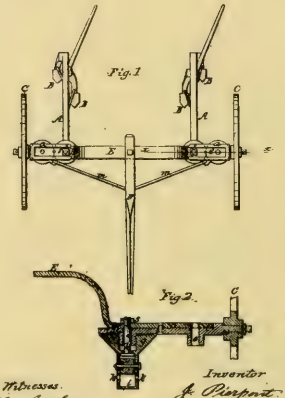
Witnesses:

Inventor.

J. PIERPONT.

Wheel-Cultivator.

No. 69,697. Patented Oct. 8, 1867.



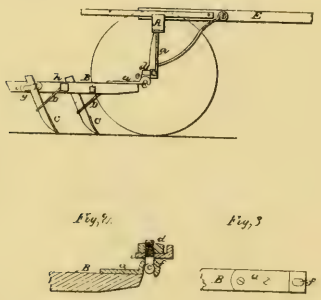
Witnesses.

Inventor

L. M. Hollond

Wheel Cultivator

No. 76,634. Patented Apr. 14, 1868



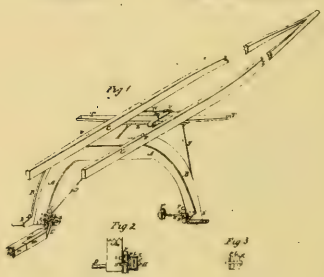
Witnesses:

Inventor;

W. A. Dryden

Wheel Cultivator

No. 86,292. Patented Jan. 29, 1868.



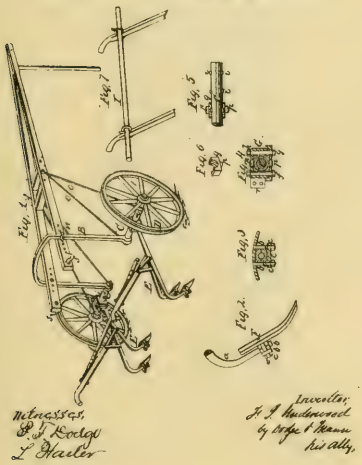
Witnesses:

Inventor

F. J. Underwood.

Wire Cultivator

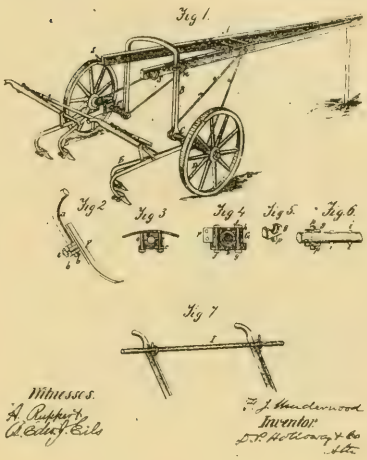
No 85,412. Patented Dec 29, 1868.



FLAVIUS J. UNDERWOOD.

Improvement in Cultivators.

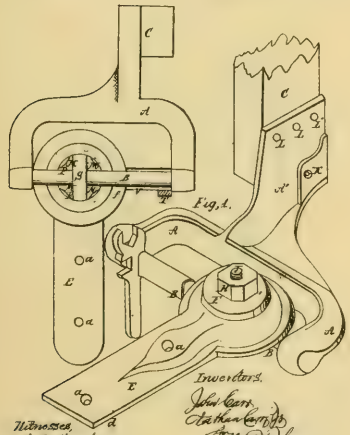
No. 85,412. Patented Dec. 29, 1868.
No. 4,665. Reissued Dec. 12, 1871.



N. & J. Carr. Jr.

Cultivator

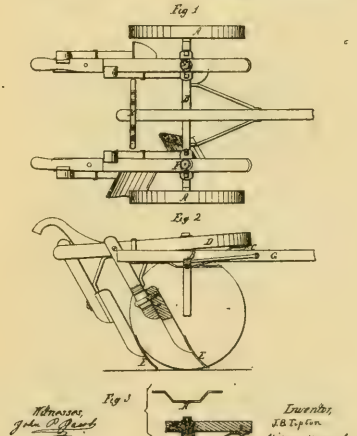
No 85,509. Patented Jan 5, 1869.



J. B. Tipton.

Cultivator.

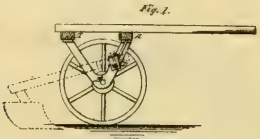
No 87,080. Patented Feb 16, 1869.

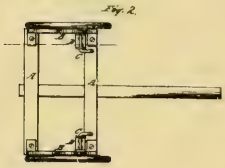


D. C. Storer.

Cultivator.

No. 87,724. Patented Mar 9, 1869.





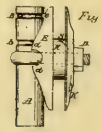
Witnesses:
Alex. F. Robert.
E. B. Ophff.

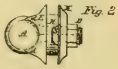
Inventor:
D. C. Storer
per Munn & Co.
Attorneys.

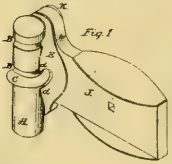
W. A. Dryden.

Cultivator Joint.

No. 91,727. Patented June 22, 1869.







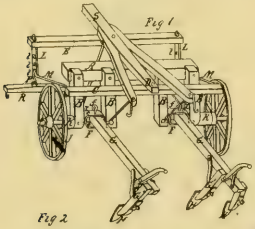
Witnesses:
F. R. Richardson
J. H. Shaw.

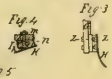
Inventor.
W. A. Dryden.
per W. T. Richards, Atty.

J. Lueth.

Wheel Cultivator.

No. 94,497. Patented Sept 7, 1869.





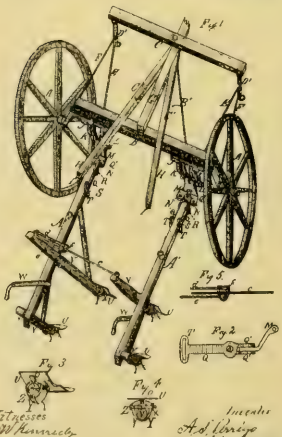
Witnesses
George Vail
Thomas Rew

Inventor
John Lueth
By his attorney
Geo. H. Chapman

A. S. Tirrill,

Cultivator.

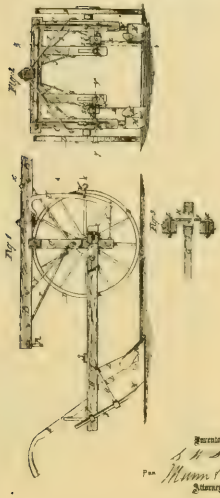
No. 95,505. Patented Oct. 5, 1869.



Witnesses
H. W. Kennedy
H. Sinclair

Inventor
A. S. Tirrill
By his attorney
G. H. Chapman

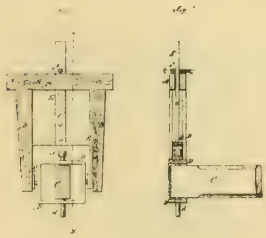
S. M. Frost,
Cultivator.
No. 97032. Patented Nov. 23, 1869.



Witnesses:
Wm. Chase
Chas. E. Roberts

Inventor:
S. M. Frost
Per Munn & Co.
Attorneys.

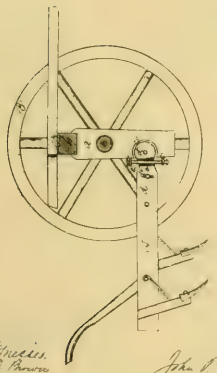
I. N. Gates.
Cultivator.
No. 97073. Patented Nov. 23, 1869.



Witnesses:
Chas. Neal
Chas. E. Roberts

Inventor:
I. N. Gates
Per Munn & Co.
Attorneys.

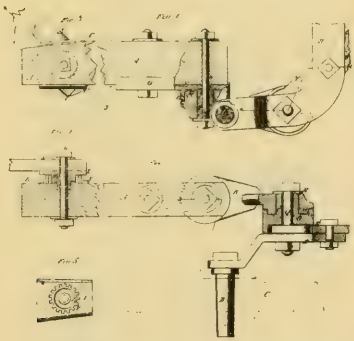
[illegible]
Wheel Cultivator.
No. 98604. Patented Jan. 4, 1870.



Witnesses:
E. C. Brown
J. of Robert

John P. Lilly Inventor
by Geo. E. Morgan
Atty.

E. P. Osborn.
Wheel Cultivator.
No. 108184. Patented Aug. 30, 1870.



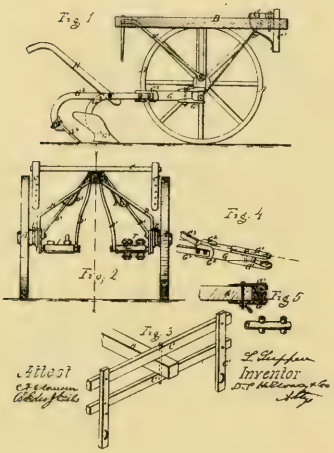
Witnesses:
Geo. Patent
D. S. Make

Inventor:
E. P. Osborn
Per Munn & Co.
Attorneys.

L. Lupfer.

Wheel Cultivator.

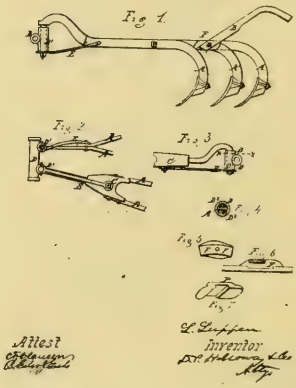
No. 108294. Patented Oct. 11. 1870.



L. Lupfer,

Wheel Cultivator.

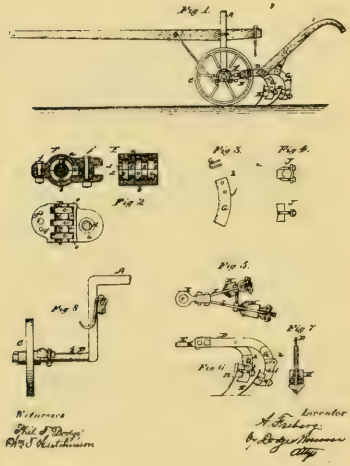
No. 108296. Patented Oct. 11. 1870.



A. Friberg,

Wheel Cultivator.

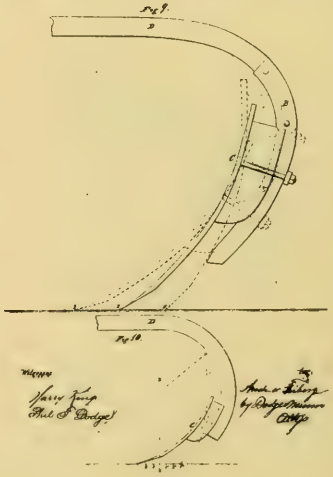
No. 111027 Patented Feb. 7. 1871.



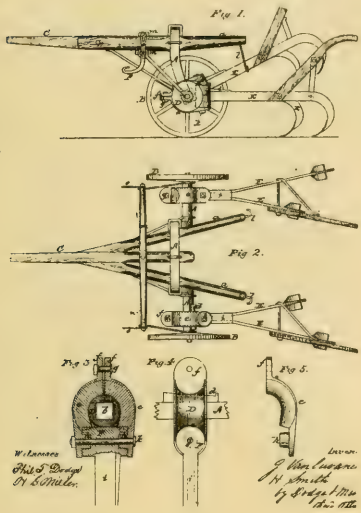
A. Friberg,

Wheel Cultivator.

No. 111027. Patented Feb. 7. 1871.



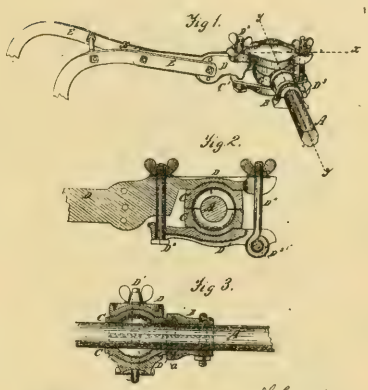
Vanhouwee & Smith,
Wheel Cultivator.
No. 112,990. Patented Mar. 21, 1871.



SAMUEL CROSSLEY.

Improvement in Cultivators.

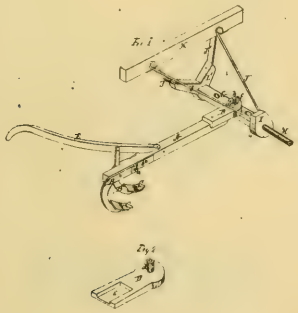
No. 124,724. Patented March 19, 1872.



SAMUEL ROCKAFELLOW.

Improvement in Wheel-Cultivators.

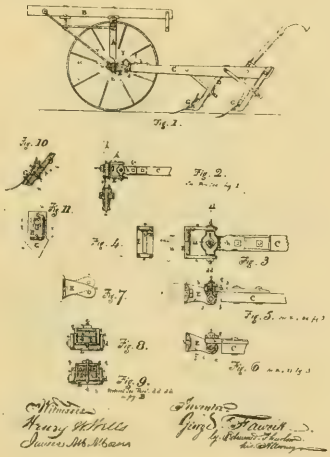
No. 126,092. Patented April 23, 1872.



GEORGE FAWCETT.

Improvement in Cultivators.

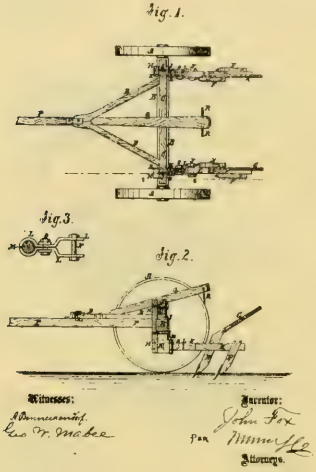
No. 126,276. Patented April 30, 1872.



J. FOX.

Improvement in Plows.

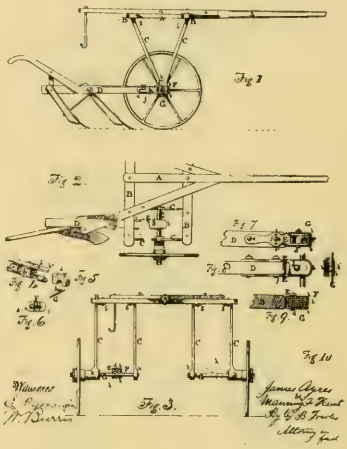
No. 128,295. Patented June 25, 1872



J. AYRES & M. F. HUNT.

Improvement in Cultivators.

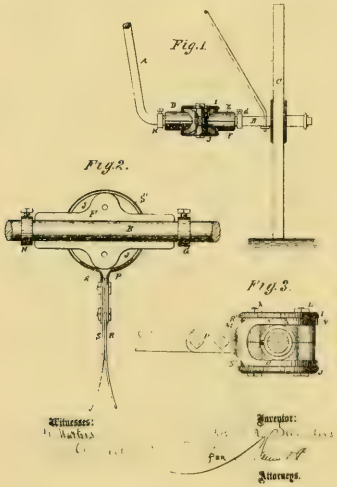
No. 129,642. Patented July 23, 1872.



J. R. SANDERS.

Improvement in Cultivators.

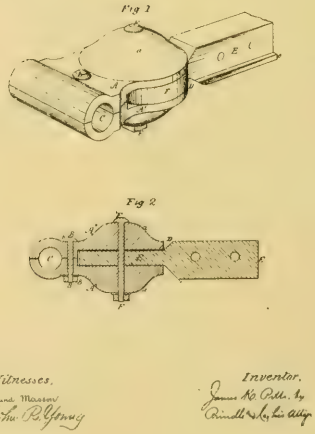
No. 131,908. Patented Oct. 1, 1872



J. K. PITTS.

Plow-Couplings.

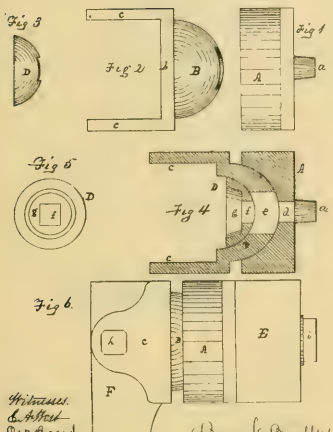
No. 135,360. Patented Jan. 28, 1873.



B. C. BRADLEY.

Cultivators.

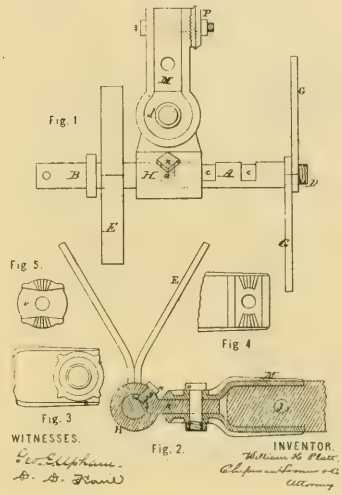
No. 135,401. Patented Feb. 4, 1873.



W. H. PLATT

Cultivators.

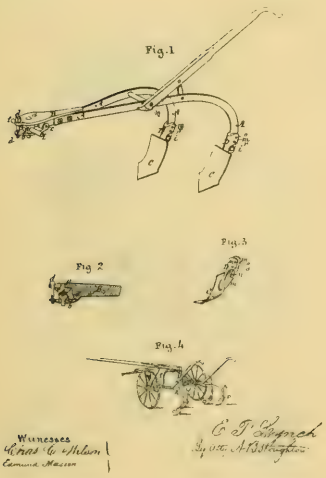
No. 137,024 Patented March 18, 1873.



E. P. LYNCH.

Cultivators.

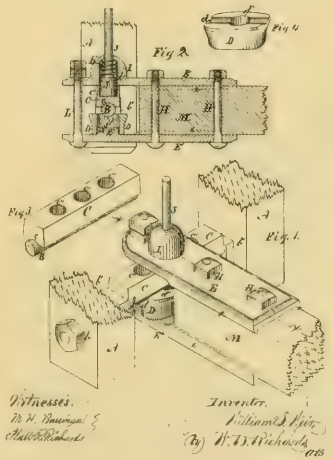
No. 143,172. Patented September 23, 1873.



W. S. WEIR.

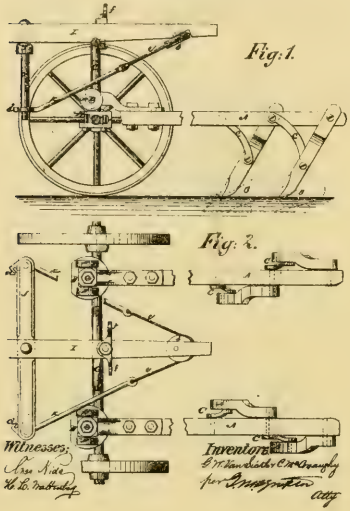
Cultivators.

No. 148,787. Patented March 17, 1874.



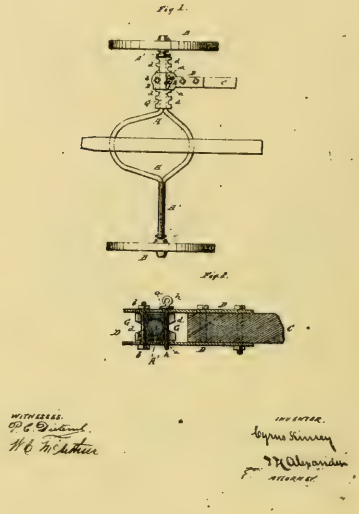
G. W. VAN SICKLE & C. McCONAUGHY.
Cultivators.

No. 153,404 Patented July 21, 1874.



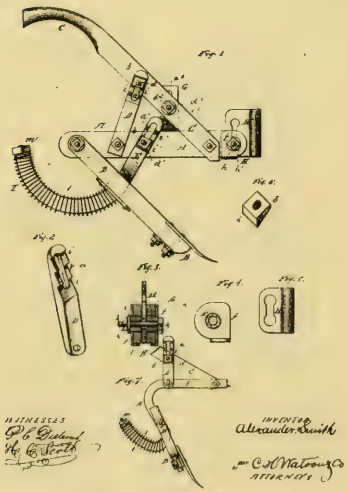
C. KINSEY.
Cultivators.

No. 154,257. Patented Aug. 18, 1874.



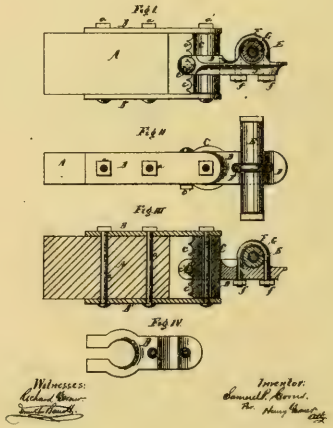
A. SMITH.
Plows.

No. 157,234. Patented Nov. 24, 1874.

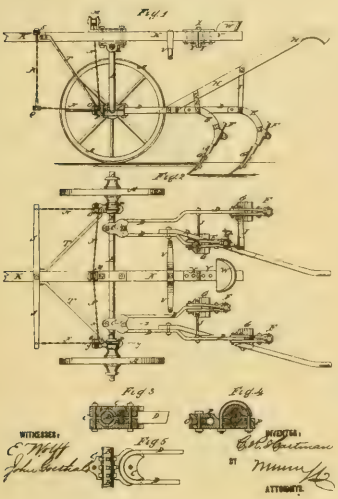


S. P. COONS.
WHEEL-CULTIVATOR.

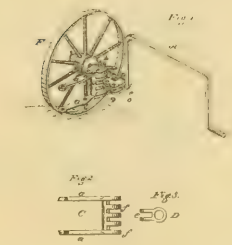
No. 162,642. Patented Sept. 26, 1876.



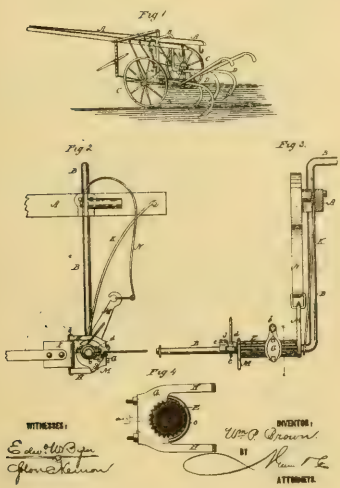
C. R. HARTMAN.
CULTIVATORS.
No. 183,301. Patented Oct. 17, 1876.



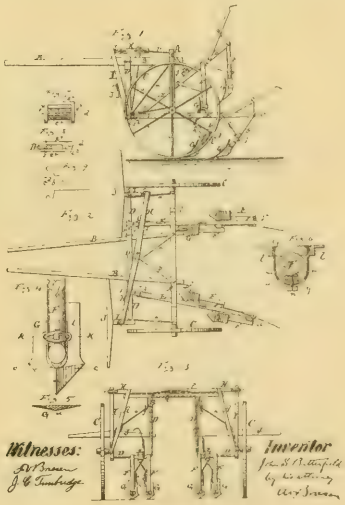
H. FELTMAN.
CULTIVATOR COUPLINGS
No. 184,960. Patented Dec. 5, 1876



W. P. BROWN.
COUPLINGS FOR CULTIVATORS.
No. 190,816. Patented May 15, 1877.

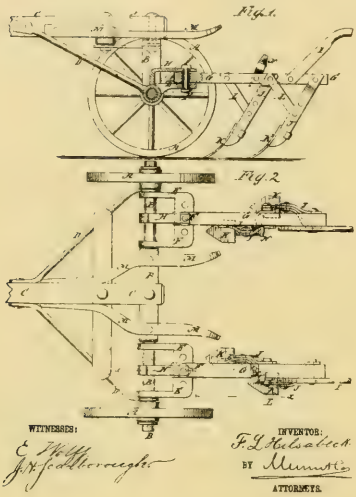


J. S. BUTTERFIELD
Cultivator.
No. 195,979. Patented Oct. 9, 1877.



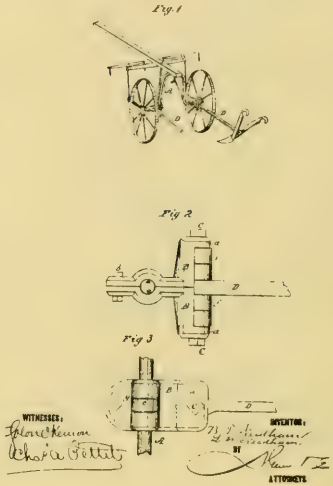
F. L. HILSABECK.
Cultivator.

No. 197,032. Patented Nov. 13, 1877.



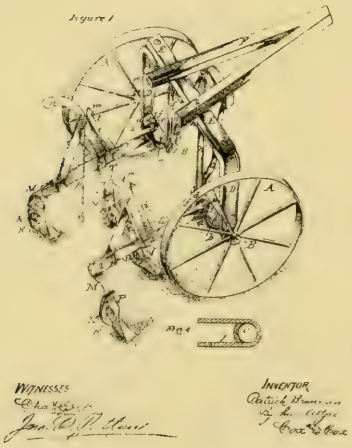
B. F. & L. W. NEEDHAM.
Wheel-Cultivator.

No. 199,565. Patented Jan. 22, 1878.



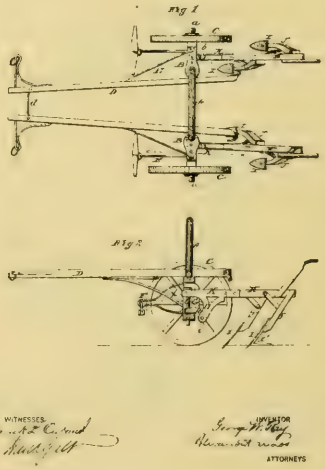
P. BRANNAN.
Corn-Plow.

No. 200,787. Patented Feb. 26, 1878.



G. W. RAY.
Wheel-Cultivator.

No. 205,417. Patented June 25, 1878.

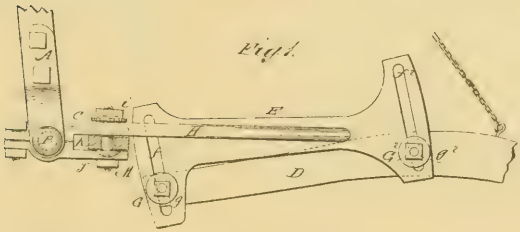


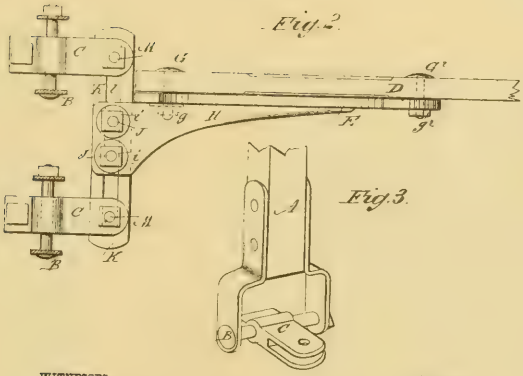
(No Model.)

H. J. POTTER.

Plow Attachment for Cultivators.

No. 234,060. Patented Nov. 2, 1880.





WITNESSES:

Francis M. Wadle.

C. Sedgwick

INVENTOR:

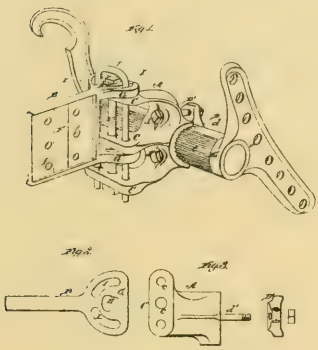
H. J. Potter

BY Munn & Co.

ATTORNEYS.

W. P. BROWN.
Plow and Cultivator Coupling.

No. 216,145. Patented June 3, 1879.



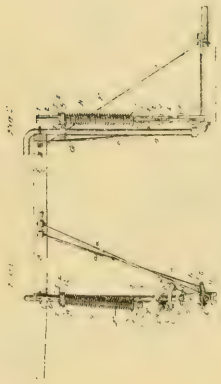
WITNESSES
Chas. Smith
H. Clay Smith

INVENTOR
William P. Brown
By Gilmore Smith & Co.
ATTORNEYS

(Model.)

F. B. MANLY.
Wheel Cultivator.

No. 238,943. Patented March 15, 1881.



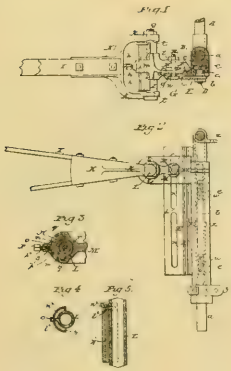
WITNESSES
John C. Ellis
Philip Cellini

INVENTOR
Frank P. Manly
by Clodomir Smith
his ATTORNEYS

(Model.)

F. B. MANLY.
Wheel Cultivator.

No. 238,944. Patented March 15, 1881.



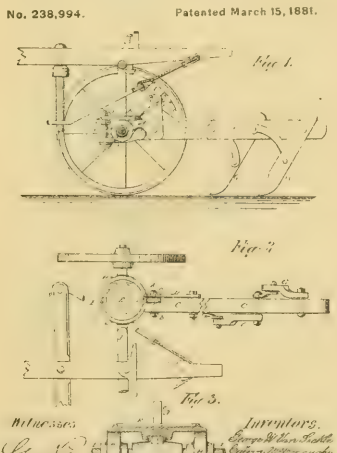
WITNESSES
John C. Ellis
Philip Cellini

INVENTOR
Frank B. Manly
by Clodomir Smith
his ATTORNEYS

(No Model.)

G. W. VAN SICKLE & C. McCONLUGHY.
Cultivator

No. 238,994. Patented March 15, 1881.



Witnesses:
Chas. Neff
H. Washington

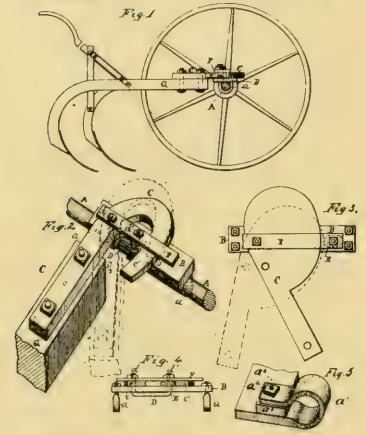
Inventors:
George Wilson Fiske
Cyrus McConlughy
by
Attorney

(No Model.)

J. B. PARADIS.

Cultivator Coupling.

No. 239,268. Patented March 22, 1881.



WITNESSES

James H. Coyne
Charles A. Schaff

INVENTOR

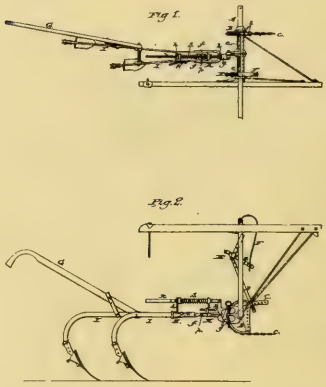
John B. Paradis
By Coyne and Elliott
Attorneys

(No Model.)

W. P. BROWN.

Cultivator.

No. 240,377. Patented April 19, 1881.



WITNESSES

John H. Ellis
Philip Allman

INVENTOR

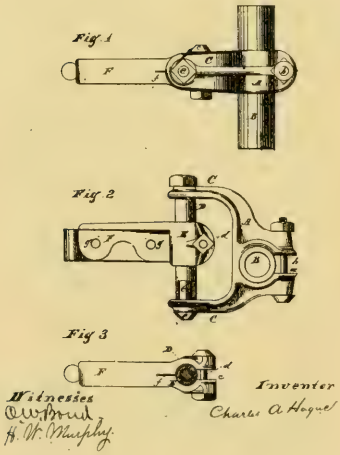
Wm. P. Brown
by Anderson & Smith
his ATTORNEYS

2 Sheets—Sheet 1.

C. A. HAGUE.

Cultivator Coupling.

No. 243,122. Patented June 21, 1881.



Witnesses
A. W. Bond
H. W. Murphy

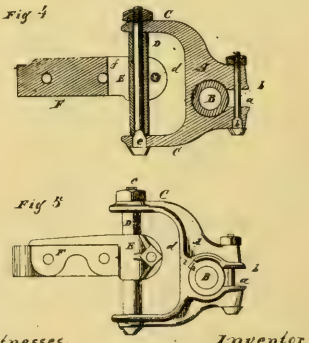
Inventor
Charles A. Hague

2 Sheets—Sheet 2.

C. A. HAGUE.

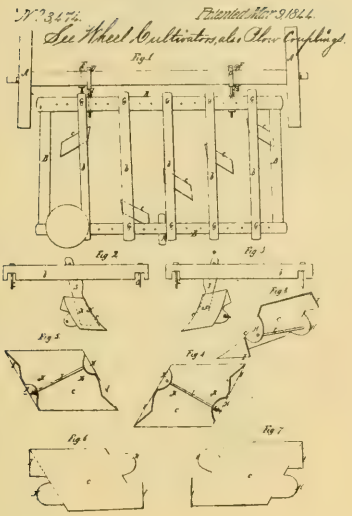
Cultivator Coupling.

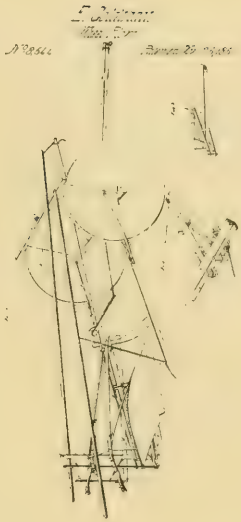
No. 243,122. Patented June 21, 1881.



Witnesses.
A. W. Bond
H. W. Murphy

Inventor
Charles A. Hague


H. Brown.
Wheel Plow.
Patented Mar 9 1824
See Wheel Cultivators, also Plow Coupling.
Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Fig 6
Fig 7



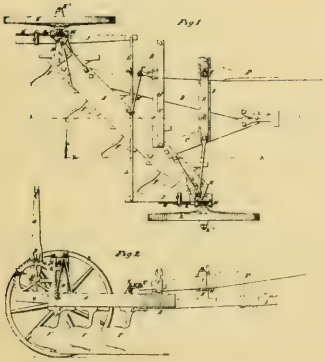


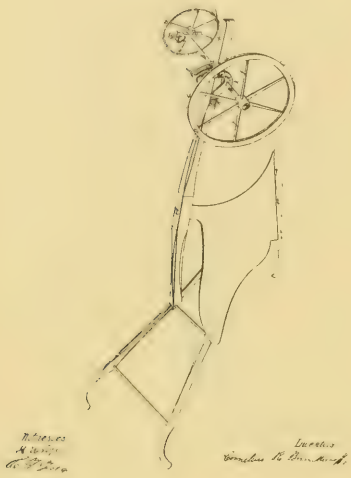
Fig 1
Fig 2

C R Brinckerhoff
Wheel Plow
Patented Oct 11, 1853

C. R. Brincherhoff

Wheel Plow

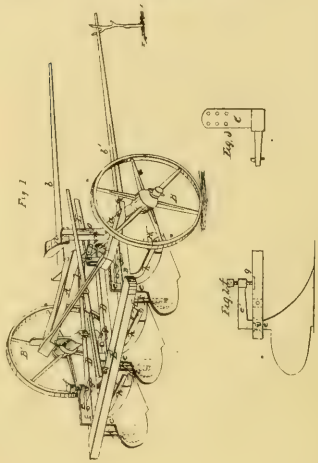
No. 2,94. Reissued Jan. 30, 1855.



Pilkin & De Pry

Gang Plow

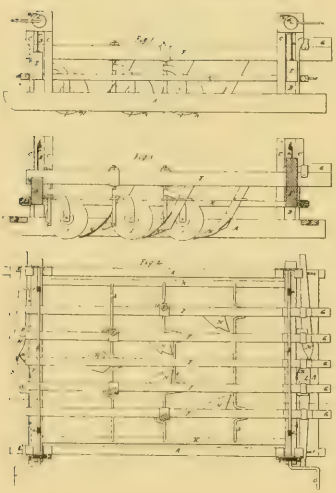
No. 10,153 Patented Oct. 26, 1853



T. J. Hall

Gang Plow

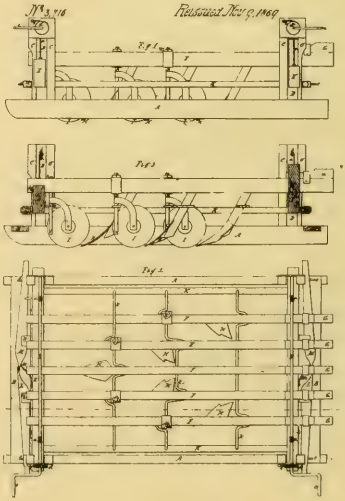
No. 12,741 Patented May 1, 1855.



T. J. Hall

Gang Plow

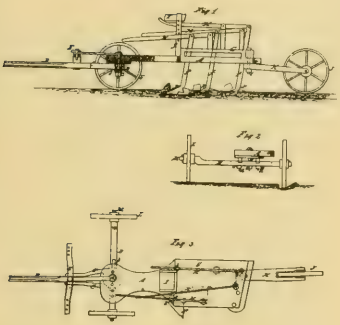
No. 3,716 Reissued Nov. 9, 1860



A. & T. S. Smith.

Gang Plow.

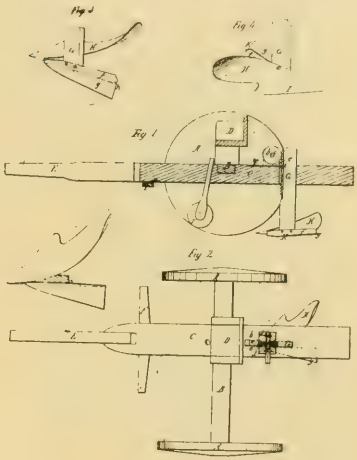
No. 14,373. Patented Mar. 4, 1866.



M. Farley

Wheel Plow.

No. 14,916 Patented Dec. 9, 1856.

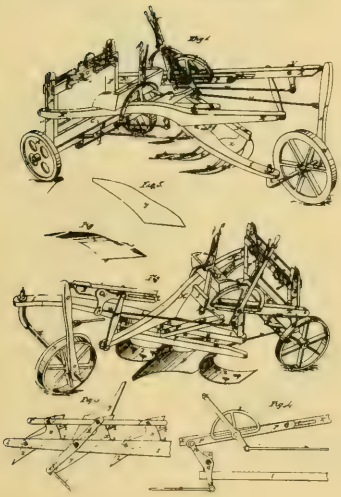


Sheet 1 2 Sheets

J. Frye.

Gang Plow.

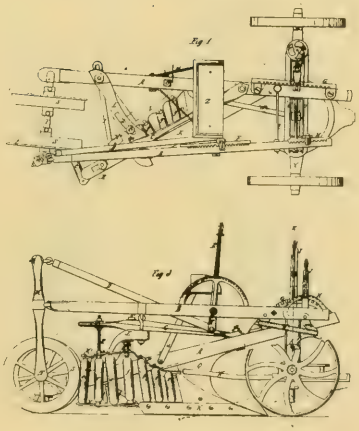
No. 14,912. Patented Mar. 31, 1857.



J. Frye

Wheel Plow

No. 14,913 Patented Mar. 31, 1857.

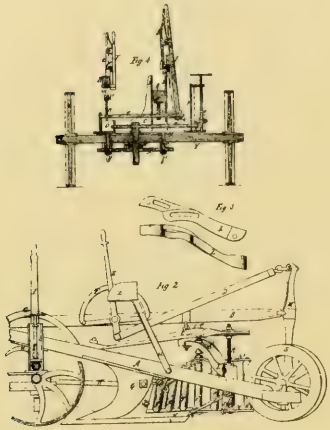


Sheet 1. 2 Sheets

J. Frye

Wheel Plow

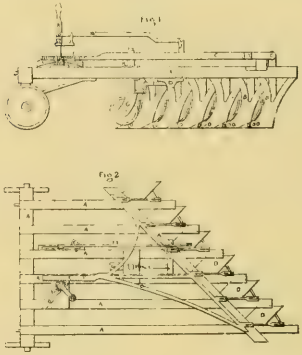
No. 16,412. Patented Mar. 31, 1857.



J. Sutter.

Wheel Plow.

No. 17,591. Patented June 16, 1857.

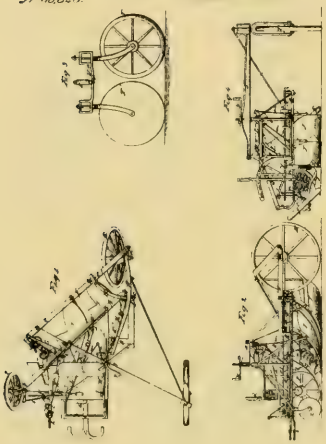


Witnesses: Inventor:

Kirzman & Cotz.

Wheel Plow

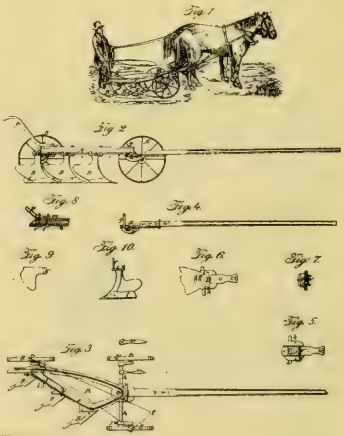
No. 18,343. Patented Oct. 6, 1857.



G. W. HILDRETH.

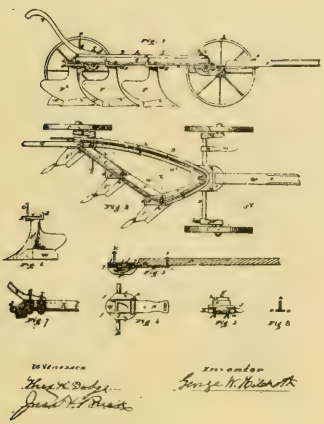
Wheel-Plow

No. 18,397. Patented Oct. 13, 1857.

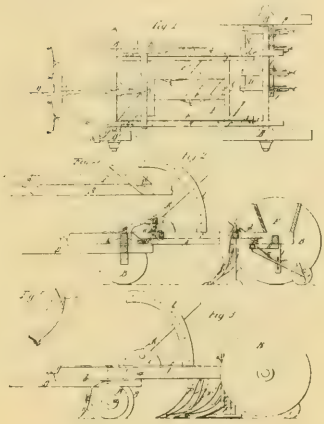


Witnesses: Inventor:

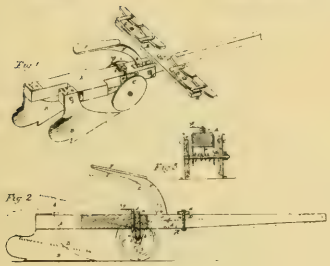
G. W. Hildreth,
Wheel Plow.
No. 4,988. Reissued Dec. 26, 1870.



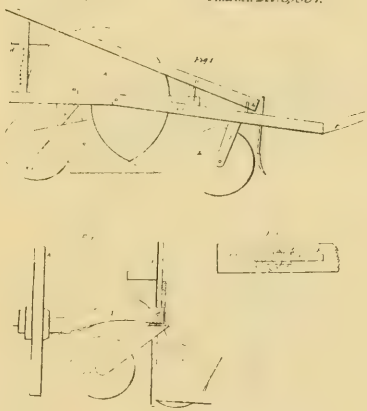
J. Lee.
Wheel Plow.
No. 18,538 Patented Nov. 24, 1857.



J. Lee.
Wheel Plow.
No. 18,605. Patented Dec. 8, 1857.



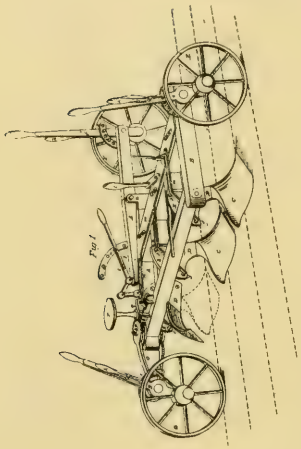
J. Lee.
Wheel Plow.
No. 18,820 Patented Dec. 8, 1857.



M. R. Chavath.

Wheel Plow.

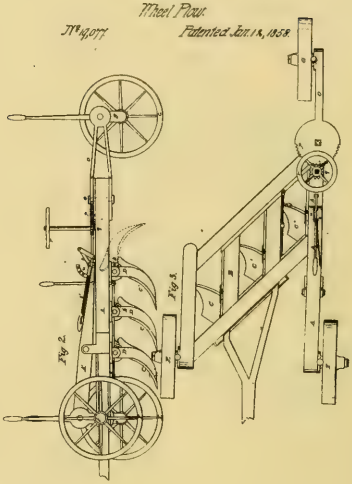
No. 19,077. Patented Jan. 18, 1858.



M. R. Chavath.

Wheel Plow.

No. 19,077. Patented Jan. 18, 1858.



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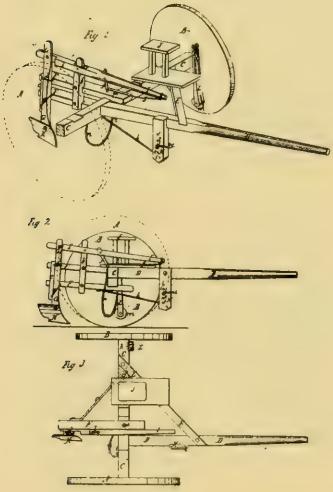
Wheel Plow.

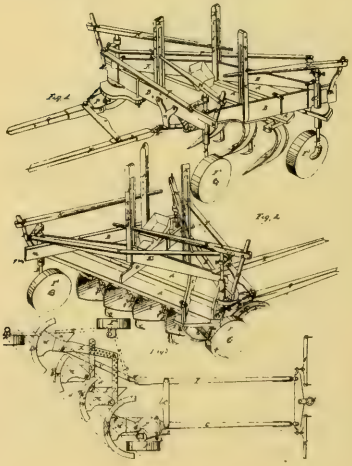
No. 19,388. Patented Feb. 16, 1858.



J. Frye.

Wheel Plow.

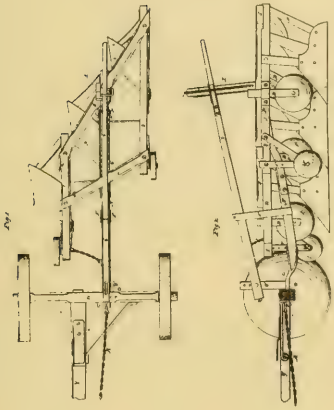
No. 20,352. Patented May 25, 1858.



D. C. Mattson.

Wheel Plow.

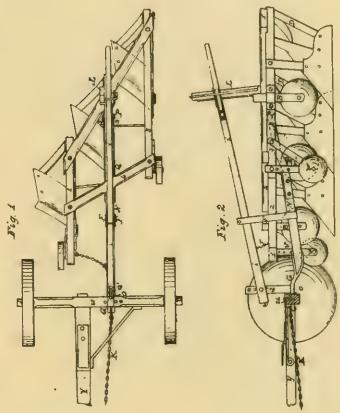
No. 20,647. Patented Jun. 22, 1858.



D. C. Mattson.

Wheel Plow.

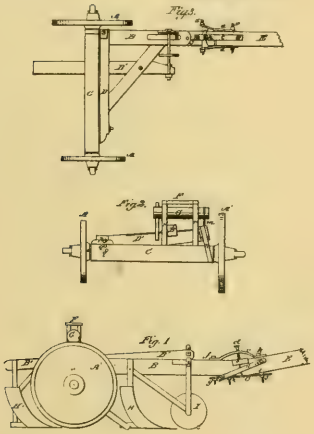
No. 3114. Reissued Sep. 8, 1868.



C. D. Cotton.

Wheel Plow.

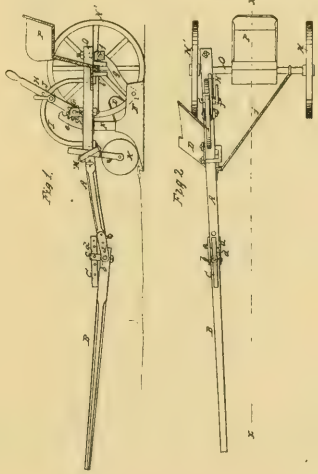
No. 20,936. Patented Jul. 20, 1858.



B. B. Scofield.

Wheel Plow.

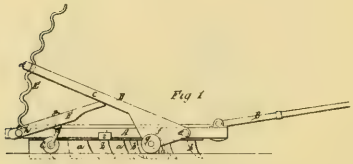
No. 21,630 Patented Sept. 28, 1858.

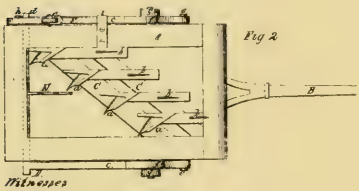


J. B. Duane.

Sing Plow.

No. 22,494. Patented Jan. 4, 1859.





Witnesses

Wm Tuchl

H. Ruf

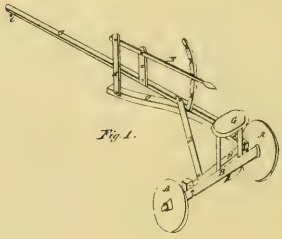
Inventor

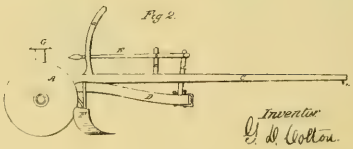
John B. Duane

G. D. Colton,

Wheel Plow.

No. 22,629. Patented Jan. 18, 1859.





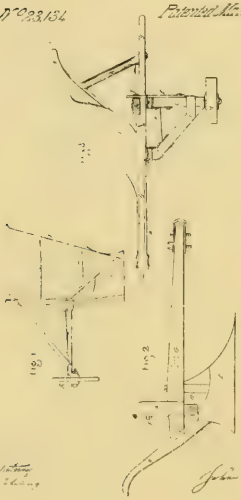
Inventor

G. D. Colton.

J. M. Whitney.

Plow.

No. 23,134 Patented Mar. 1, 1859



Witnesses

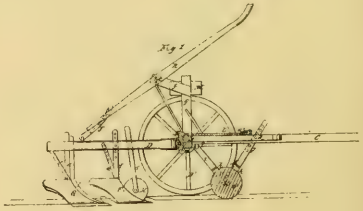
Inventor

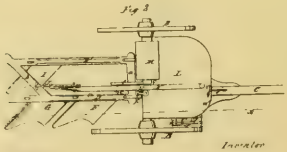
John M. Whitney

C. H. Dawson.

Wheel Plow.

No. 23,159. Patented Mar. 8, 1859.

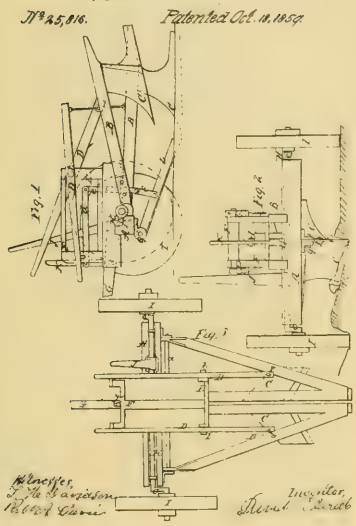


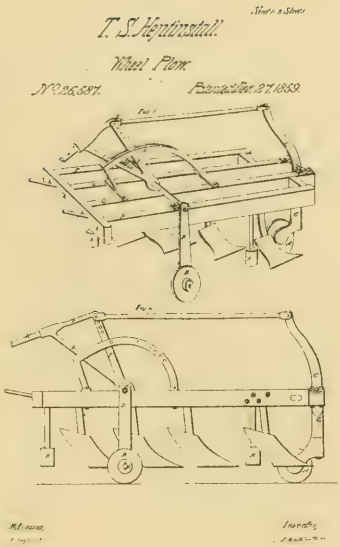


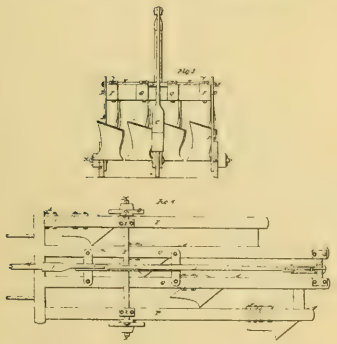
Witnesses

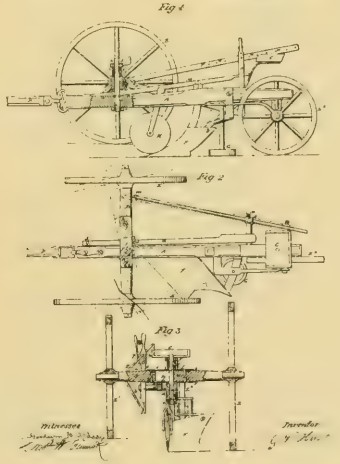
Inventor

C. H. Dawson


D. Eldred.
Wheel Plow.
No. 25,816. Patented Oct. 11, 1859.
Fig. 1
Fig. 2
Fig. 3
Witnesses,
J. M. Garrison
Robert Clark
Inventor,
D. Eldred


T. S. Hentinstall.
Wheel Plow.
No. 26,587. Patented Dec. 27, 1859.
Fig. 1
Fig. 2
Witnesses
Inventor

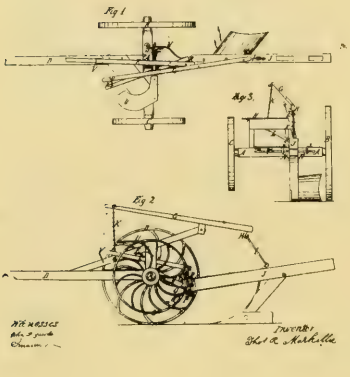

T. S. Hentinstall.
Wheel Plow.
No. 26,587. Patented Dec. 27, 1859
Fig. 3
Fig. 1
Witnesses
Inventor


C. W. Hunt.
Wheel Plow.
No. 27,634. Patented Mar. 27, 1860
Fig. 1
Fig. 2
Fig. 3
Witnesses
Inventor

T. R. Markillie.

Wheel Plow.

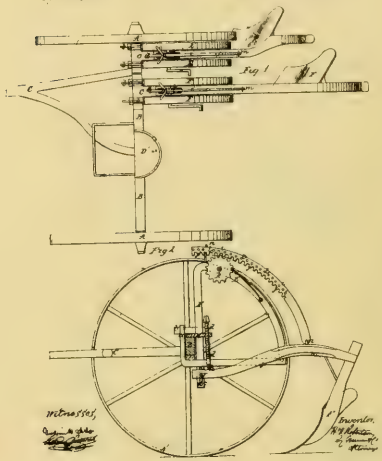
No. 38,759. Patented June 18, 1850



H. H. Robertson.

Wheel Plow.

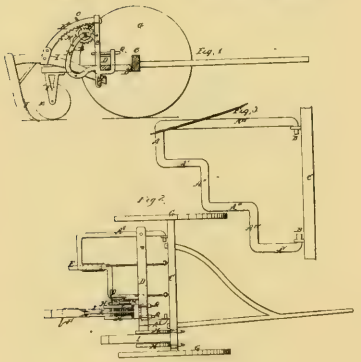
No. 29,104. Patented Aug. 10, 1860.



H. H. Robertson.

Wheel Plow.

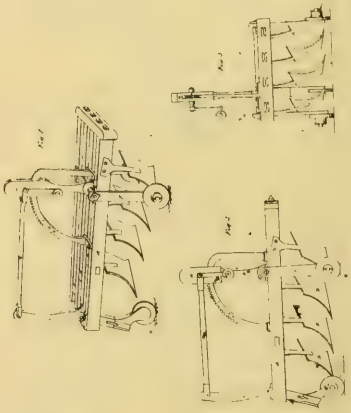
No. 30,6. R. I. Patented Nov. 27, 1860.



T. S. Henderson.

Wheel Plow.

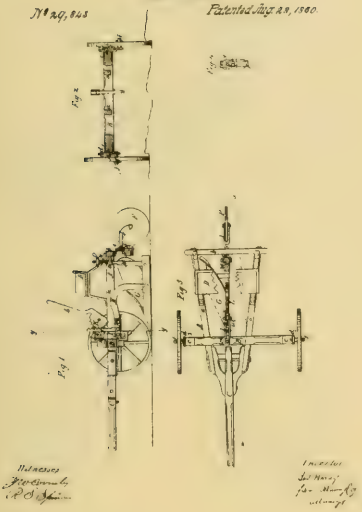
No. 29,169. Patented Aug. 17, 1860.



J. Hardy.

Wheel Plow.

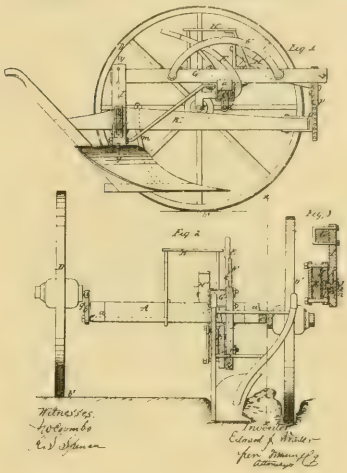
No. 29,605. Patented Aug. 28, 1860.



E. J. Harper.

Wheel Plow.

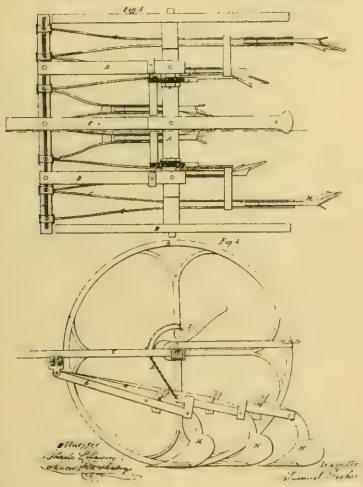
No. 30,136. Patented Sept. 25, 1860.



S. Fisher.

Wheel Plow.

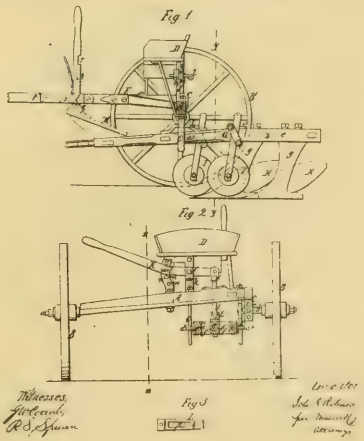
No. 30,727. Patented Nov. 27, 1860.



J. C. Robinson.

Wheel Plow.

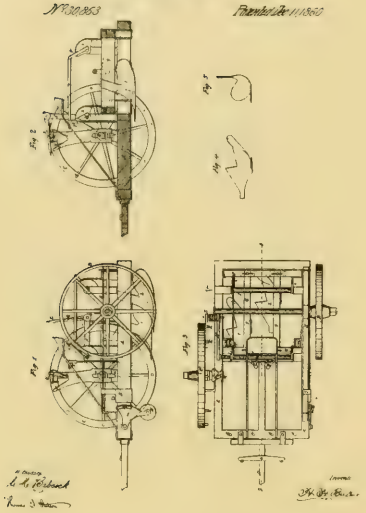
No. 30,837. Patented Dec. 4, 1860.



H. H. Baker.

Wheel Plow.

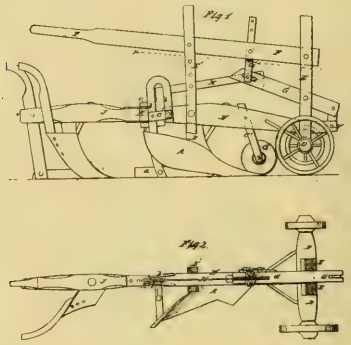
No. 30,853 Patented Dec. 11, 1860.



O. Sparks

Wheel Plow.

No. 30,894. Patented Dec. 11, 1860.



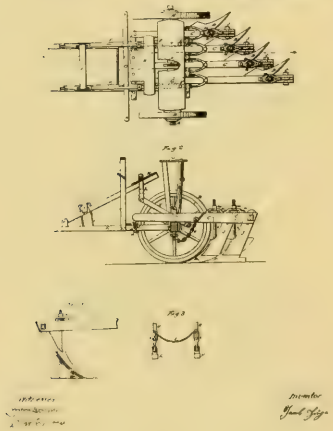
Witnesses
J. H. Crombie
C. C. Adelman

Inventor
Oliver Sparks
per Munn & Co
Attorneys

J. Hoege.

Wheel Plow.

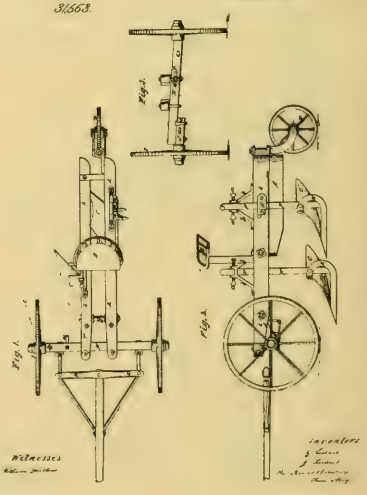
No. 30,957. Patented Dec. 18, 1860.



C. & J. Seibert.

Wheel Plow.

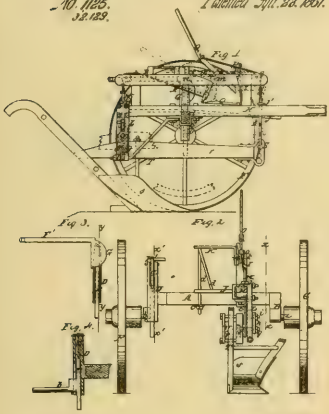
No. 30,569 31,563. Patented Feb. 26, 1861.



L. J. Fraser.

Sulky Plow.

No. 1125. 32,129. Patented Apr. 28, 1861.



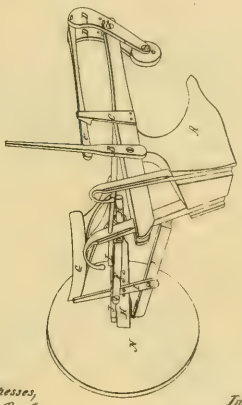
Witnesses, Jno. Combs, C. B. Spencer

Inventor, L. J. Fraser, per Munn & Co. Attorneys

V. Felker.

Plow Holder and Governor.

No. 1,227. 34,231. Patented Apr. 30, 1861.



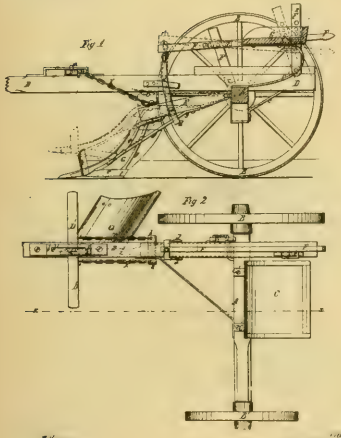
Witnesses, J. H. Perkins, T. W. Porter

Inventor, Valentine Felker

T. Patterson.

Wheel Plow.

No. 1,307. 34,311. Patented May 14, 1861.



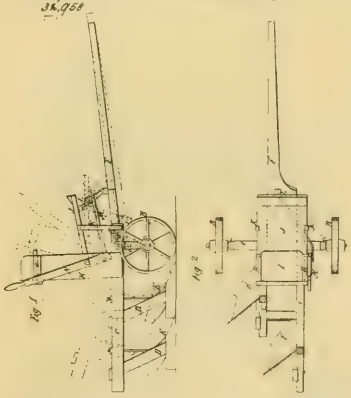
Witnesses, Jno. Combs, C. B. Spencer

Inventor, Thos. Patterson, per Munn & Co. Attorneys

J. F. & W. L. Black.

Gang Plow.

No. 1,954. 34,958. Patented Jul. 30, 1861.



Witnesses, J. H. Combs, C. Montgomery

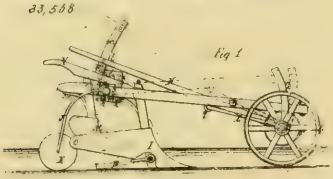
Inventors, J. F. Black — W. L. Black, per Munn & Co. Attorneys

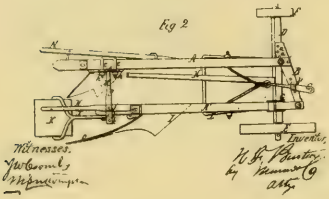
N. F. Burton.

Wheel Plow.

No. 2,564 Patented Oct. 24, 1861

33,568

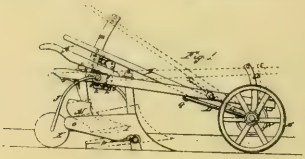


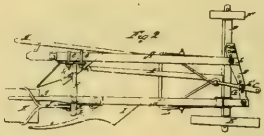


N. F. Burton.

Gang Plow.

No. 2,221 Reissued Jan. 19, 1866.





Witnesses

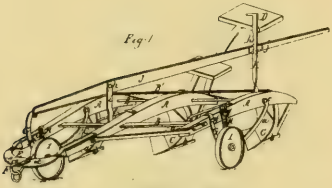
Inventor.

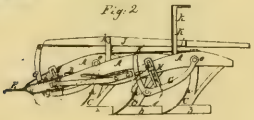
N. F. Burton

W. B. Ready,

Gang Plow.

No. 2,847. 33,851. Patented Oct. 3 1861.





Witnesses

Inventor

W. B. Ready

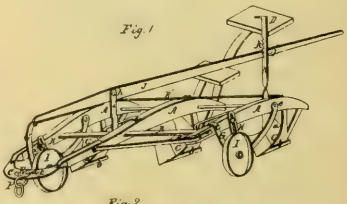
by

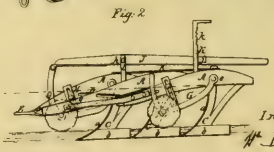
Attys.

W. B. Ready,

Gang Plow.

No. 2,991. Reissued Jun. 18, 1868.





Inventor

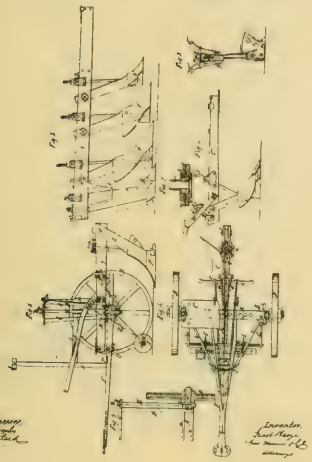
W. B. Ready

Witnesses

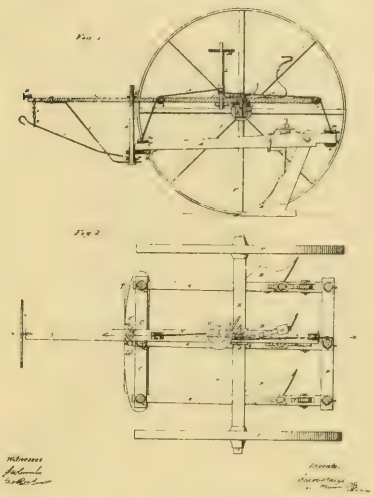
By J. H. Manson

Atty

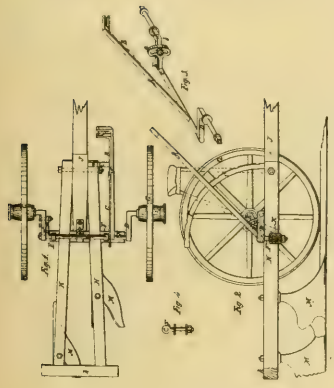
J. Haege.
Wheel Plow.
No. 37,750. Patented Feb. 24, 1863.



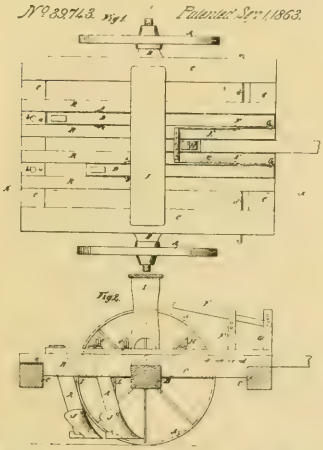
J. Haege.
Wheel Plow.
No. 38,161. Patented Apr. 14, 1863.



H. F. Hale.
Wheel Plow.
No. 39,183. Patented Aug. 11, 1863.



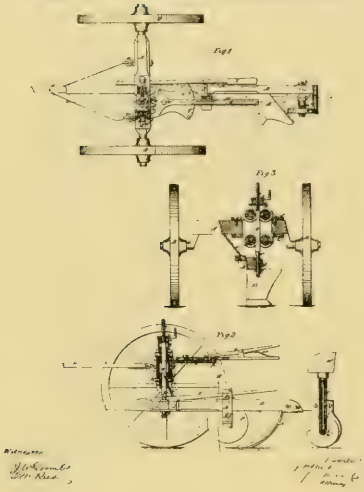
J. S. Pattison.
Wheel Plow.
No. 39,743. Patented Sept. 1, 1863.



G. W. Hunt.

Wheel Plow.

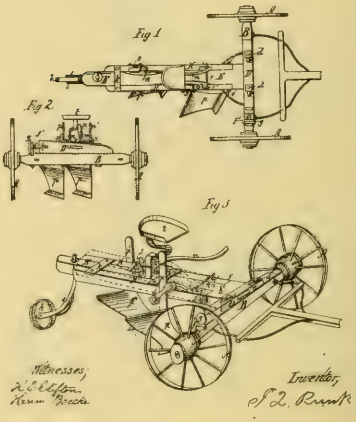
No. 39,494. Patented Sept. 15, 1863.



J. L. Runk.

Gang Plow.

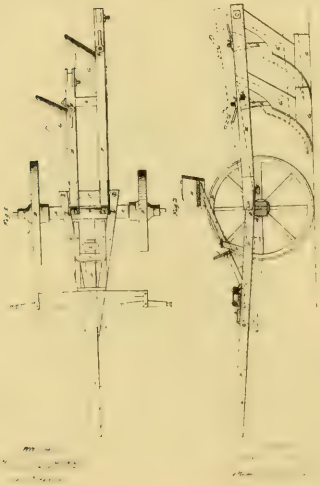
No. 39,961. Patented Sept. 15, 1863.



W. Kuehn.

Wheel Plow.

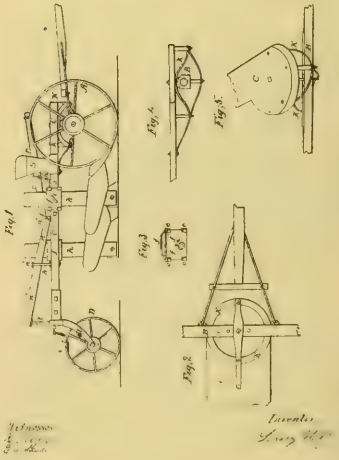
No. 40,684. Patented Nov. 17, 1863.



L. Wolf.

Gang Plow.

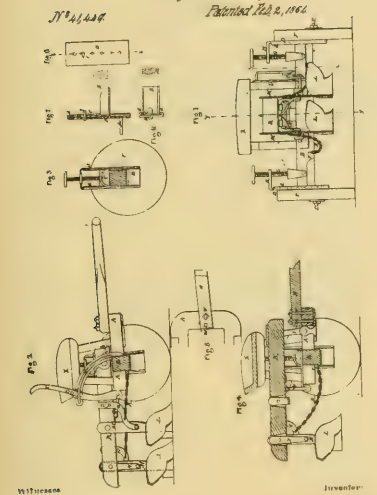
No. 40,781. Patented Nov. 24, 1863.



M. Sutley.

Gang Plow.

No. 41,434. Patented Feb. 2, 1864.



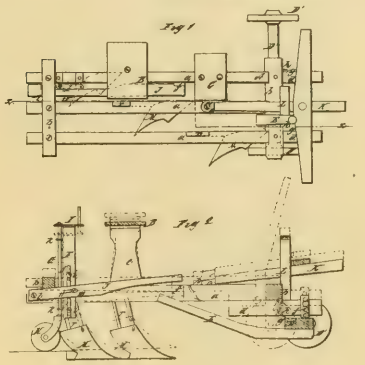
Witnesses

Inventor

F. S. Davenport.

Gang Plow.

No. 41,491. Patented Feb. 9, 1864.



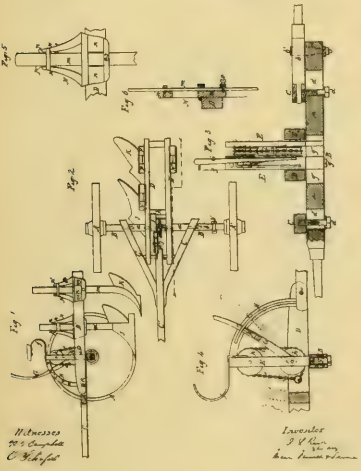
Witnesses

Inventor

J. Funk.

Gang Plow.

No. 41,603. Patented Feb. 16, 1864.



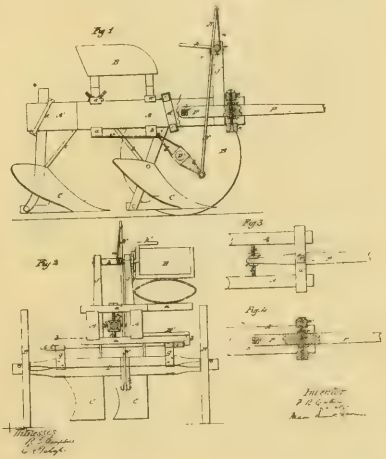
Witnesses

Inventor

F. R. Crothers.

Gang Plow.

No. 41,686. Patented Feb. 23, 1864.



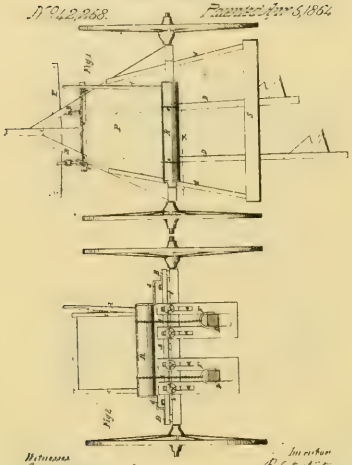
Witnesses

Inventor

R. Nation.

Wheel Plow.

No. 42,268. Patented Apr. 5, 1864.



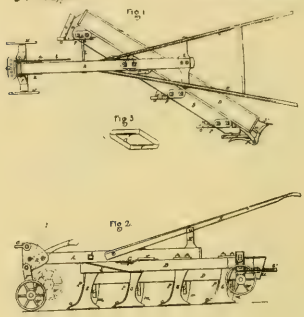
Witnesses

Inventor Robert Nation.

L. Stone.

Gang Plow.

No. 43,804. Patented Aug. 9, 1864.



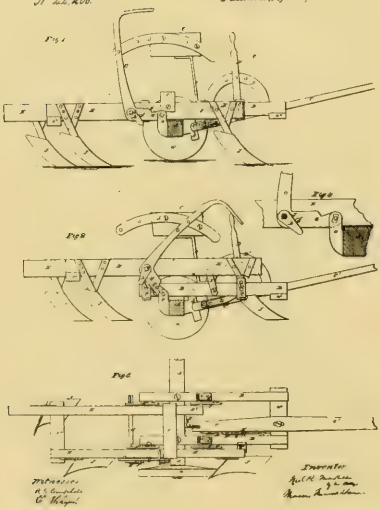
Witnesses

Inventor

T. R. Markillie.

Wheel Plow.

No. 44,206. Patented Sept. 13, 1864.



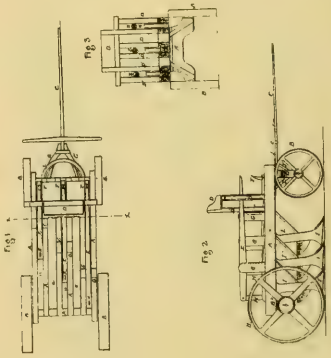
Witnesses

Inventor

J. Stone.

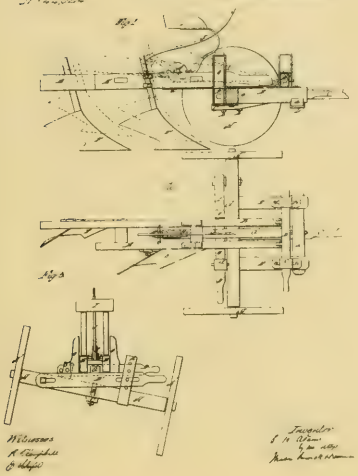
Wheel Plow.

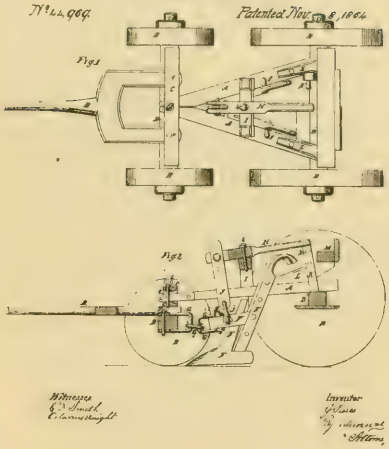
No. 44,361. Patented Sept. 20, 1864.

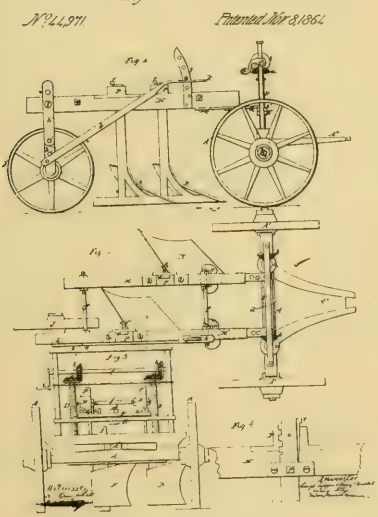


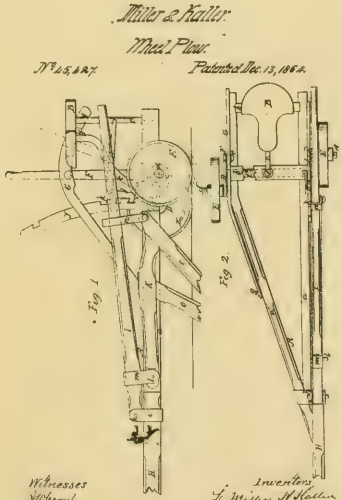
Witnesses

Inventor


S. H. Adams
Gang Plow
No. 44,924
Fig. 1
Fig. 3
Witnesses
Inventor


J. Pierce.
Wheel Plow.
No. 44,969.
Patented Nov. 8, 1864.
Fig. 1
Fig. 2
Witnesses
Inventor

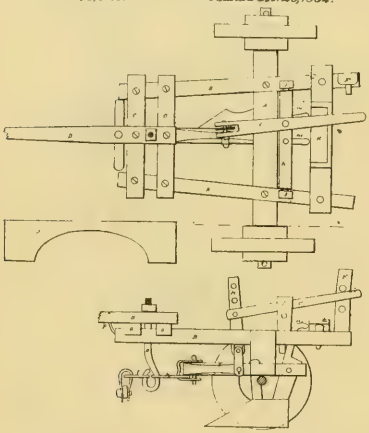

Quirin & Bertel.
Gang Plow
No. 44,911
Patented Nov. 8, 1864.
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Witnesses
Inventor


Miller & Kaller.
Wheel Plow.
No. 45,847.
Patented Dec. 13, 1864.
Fig. 1
Fig. 2
Witnesses
Inventors

J. Pierce.

Wheel Plow.

No. 46,620. Patented Dec. 20, 1864.



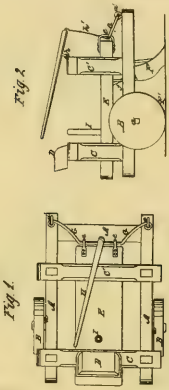
Witnesses: John Grangston, William Grangston

Inventor: Jabez Pierce

T. Short.

Gang Plow.

No. 46,897. Patented Jan. 10, 1865.



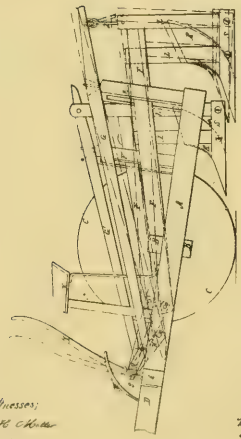
Witnesses: Charles DeSmeth, Edward A. Knight

Inventor: Thomas Short, By Munn & Co. Attorneys

W. H. Freeman.

Wheel Plow.

No. 46,988. Patented Jan. 24, 1865.



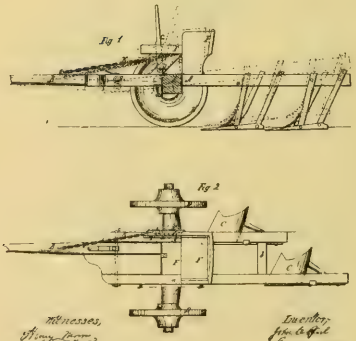
Witnesses: Geo. H. Chester, E. C. Atwood

Inventor: Geo. K. Freeman, by his Attorneys, Thos. W. Bakewell

J. C. Pfiel.

Wheel Plow.

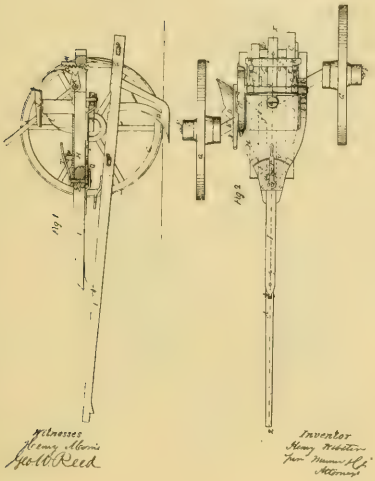
No. 46,137. Patented Jan. 31, 1865.



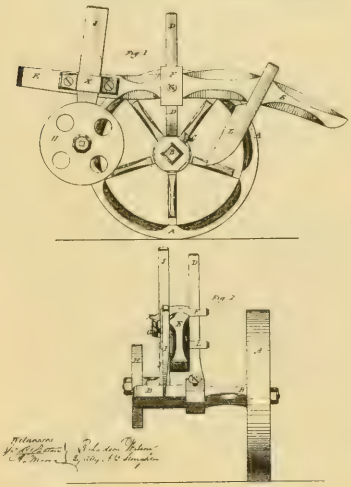
Witnesses: Henry Thorn, E. F. Ruff

Inventor: John C. Pfiel, By Munn & Co. Atty.

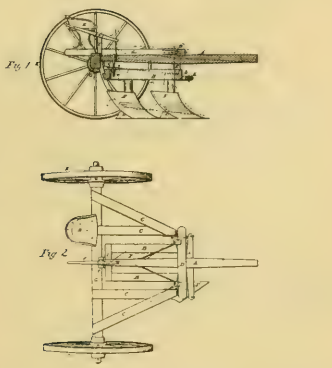
H. Webster.
Wheel Plow.
No. 46,164. Patented Jan. 31, 1865.



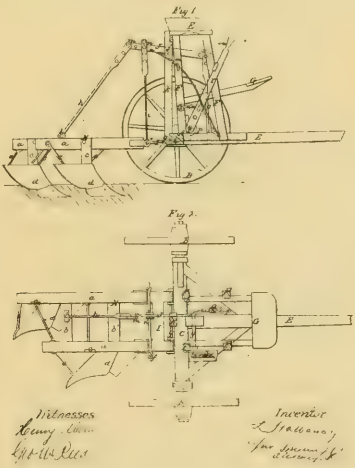
R. Mason.
Wheel Plow.
No. 46,412. Patented Feb. 14, 1865.



Durant & Buckley
Wheel Plow.
No. 46,550. Patented Feb. 28, 1865.



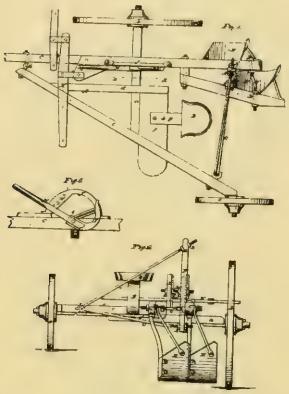
L. Hollaway.
Gang Plow.
No. 46,903. Patented Mar. 21, 1865.



J. C. Pratt.

Wheel Plow.

No. 46,971. Patented Mar. 21, 1866.

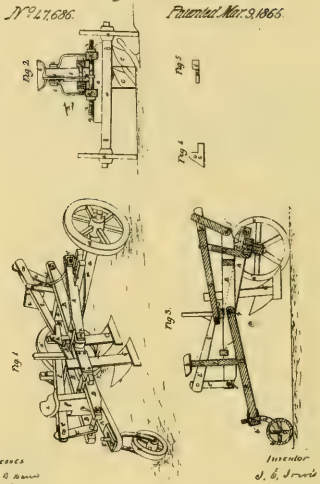


Witnesses: [illegible] Inventor: [illegible]

J. E. Travis.

Gang Plow.

No. 47,686. Patented Mar. 9, 1865.

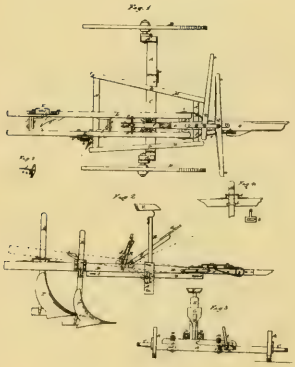


Witnesses: [illegible] Inventor: J. E. Travis

P. H. Gilbert.

Wheel Plow.

No. 47,942. Patented May 30, 1865.

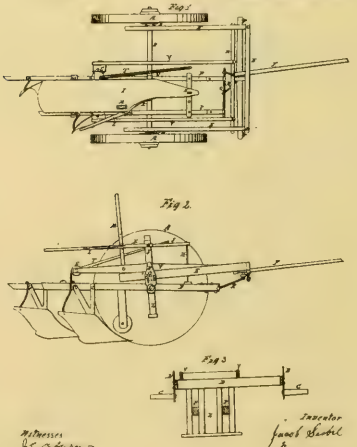


Witnesses: [illegible] Inventor: P. H. Gilbert by Coburn & Greene attorneys

J. Seibel.

Gang Plow.

No. 47,989 Patented May 30, 1865.

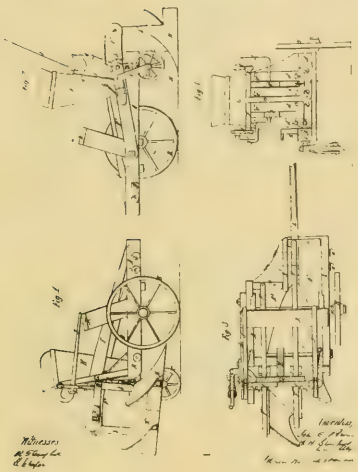


Witnesses: [illegible] Inventor: Jacob Seibel by Coburn & Greene

Brown & Skinner

Gang Plow

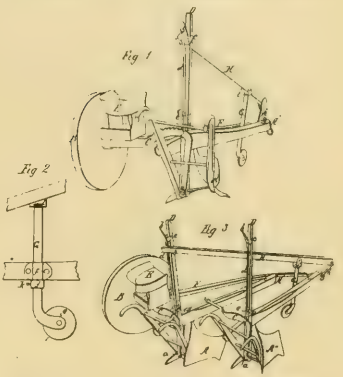
No. 48304 Patented Jan 6, 1865



V. Felker.

Wheel Plow

No. 48387 Patented Jan 27, 1865.



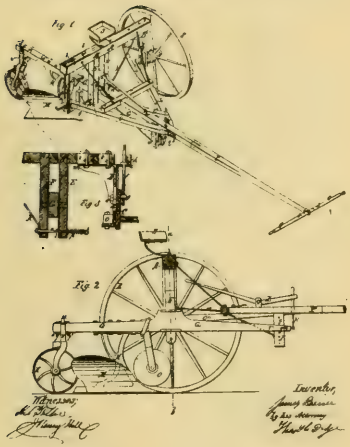
Witnesses,
J. W. Porter
No. G. Parkins

Inventor,
Valentine Felker.

J. Brown.

Sulky Plow.

No. 48514. Patented Jul 4, 1865.



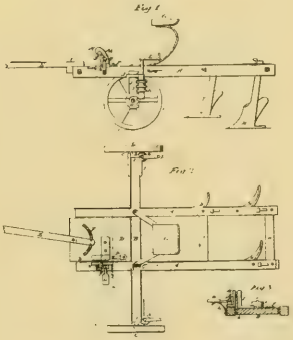
Witnesses:

Inventor,

E. Hammond

Wheel Plow

No. 48679 Patented Jul 11, 1865.



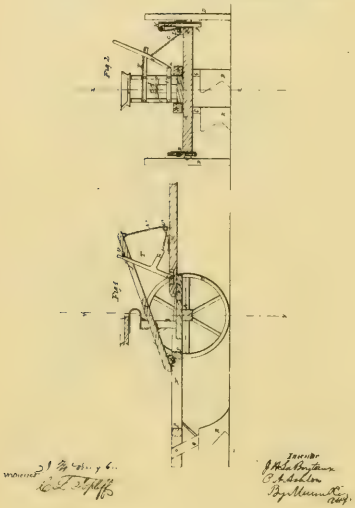
Witnesses

Inventor

L. A. Boyteaux & Ashton

Wheel Plow

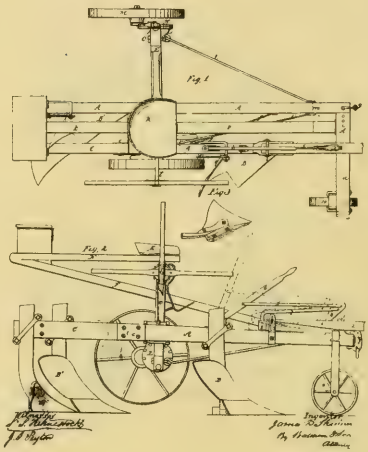
No. 48,696. Patented Jul. 11, 1865.



J. B. Skinner

Gang Plow

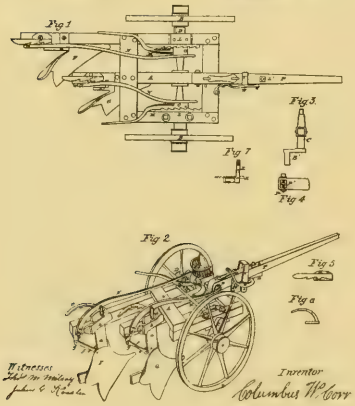
No. 48,846 Patented Jul. 18, 1865



C. W. Corr.

Gang Plow.

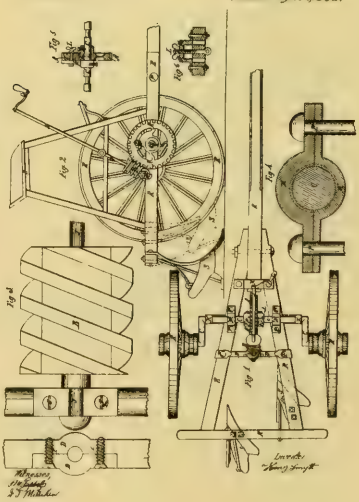
No. 49,087. Patented Aug. 1, 1865.



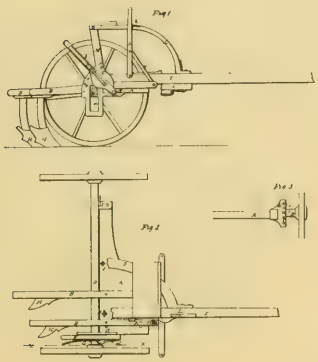
H. Smyth.

Gang Plow.

No. 49,564. Patented Aug. 22, 1865.

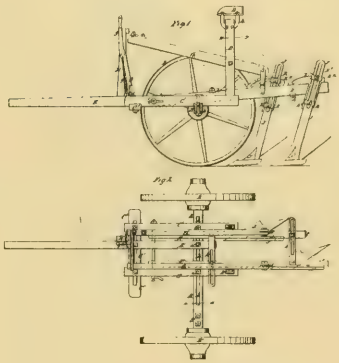


I. C. Prall.
Wheel Plow.
No. 49,833. Patented Sept. 5, 1865.



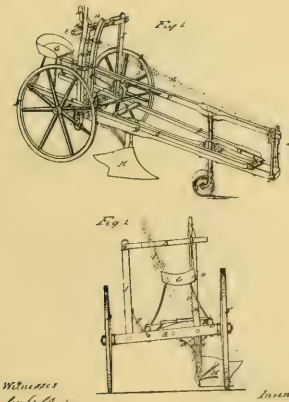
Witnesses
Inventor

J. S. Padon.
Wheel Plow.
No. 49,411 Patented Sept. 12, 1865



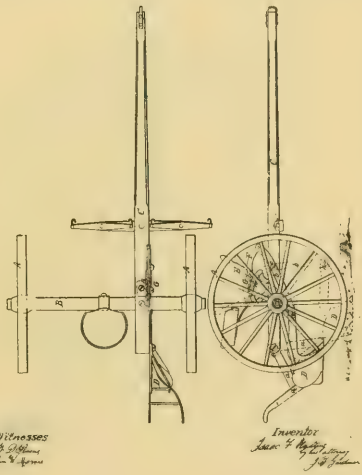
Inventor

A. Keith,
Wheel Plow,
No. 50,828. Patented Nov. 7, 1865.



Witnesses
Inventor

I. F. Nutting,
Wheel Plow,
No. 50,837. Patented Nov. 7, 1865.

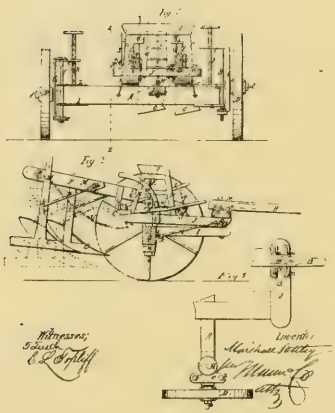


Witnesses
Inventor

M. SATTLEY.

Gang Plow.

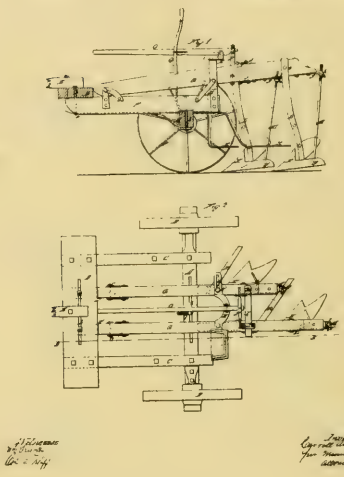
No. 51,358. Patented Dec. 5, 1865.



C. Atwood.

Gang Plow.

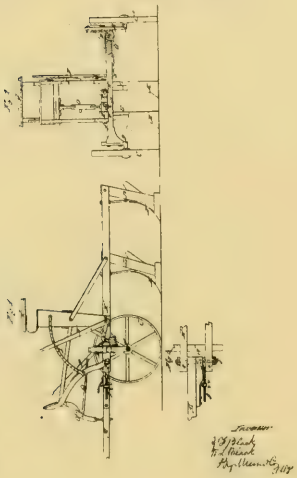
No. 51,636 Patented Dec. 19, 1865.



J. F. & W. I. Black.

Gang Plow.

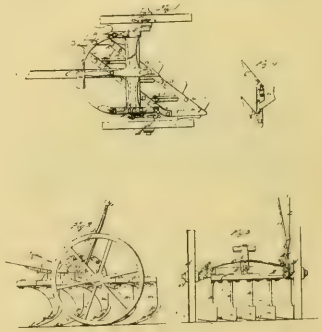
No. 51,543 Patented Dec. 19, 1865.



C. Belden.

Gang Plow.

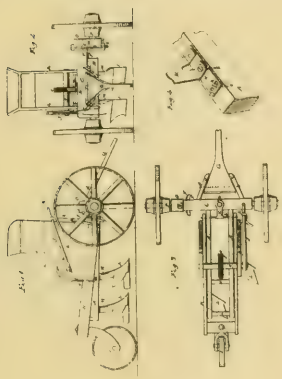
No. 51,790. Patented Nov. 21, 1865.



H. C. Smith.

Wheel Plow.

No. 51,875. Patented Dec. 2, 1866.



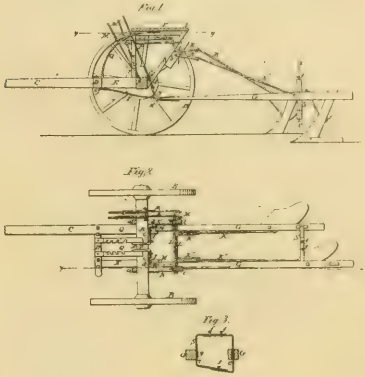
Witnesses
E. L. Huff
Henry Morris

Inventor
H. C. Smith
per Munn & Co
Attys

T. Wolfe

Sulky Plow.

No. 52,102. Patented Jan. 16, 1866



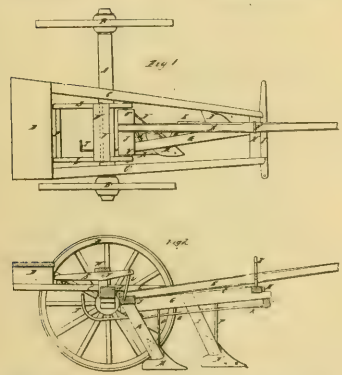
Witnesses,
Mirk Mayer,
F. A. Lovington

Inventor,
Thomas Wolfe
Munn & Co
Attorneys

A. P. Durant.

Gang Plow.

No. 52,401. Patented Feb. 6, 1866



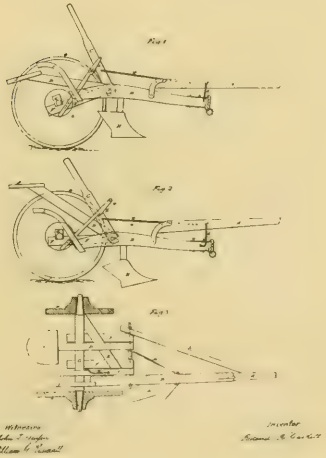
Witnesses.
C. Bartell
Geo. H. Kenny

Inventor
A. P. Durant
By Edmund Brown
Atty

R. R. Gaskill.

Wheel Plow.

No. 52,552. Patented Feb. 13, 1866



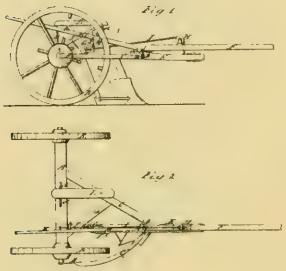
Witnesses
John T. Hopkins
William G. Ewald

Inventor
Richard R. Gaskill

Midman & Mullica.

Wheel Plow.

No. 52,633. Patented Feb. 13, 1866.



Witnesses

Inventors

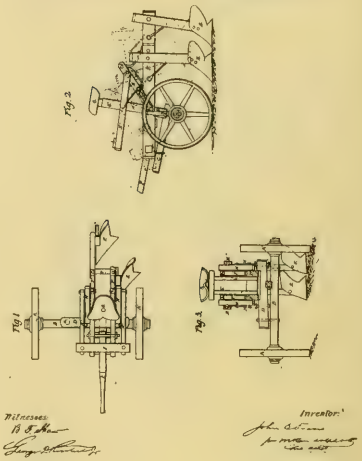
Midman & Mullica

Attorneys

J. F. Travis.

Wheel Plow.

No. 52,651. Patented Feb. 13, 1866.



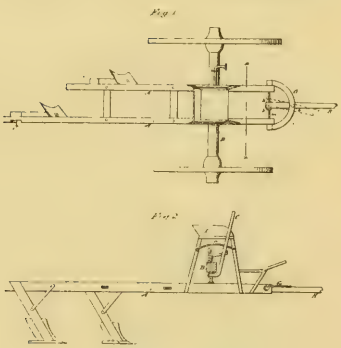
Witnesses

Inventor

B. F. & A. L. Gilliland.

Wheel Plow.

No. 52,990. Patented Mar. 6, 1866.



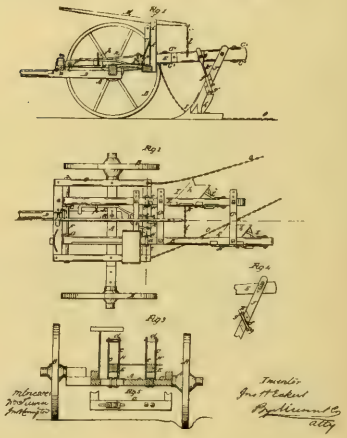
Witnesses

Inventors

J. H. Eckert.

Wheel Plow.

No. 53,624. Patented Mar. 27, 1866.



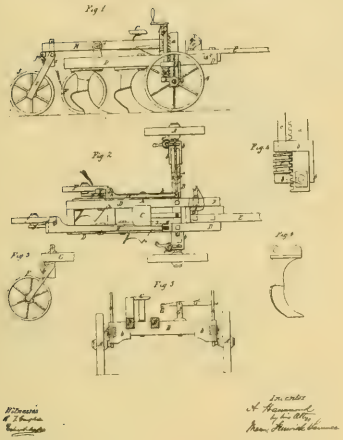
Witnesses

Inventor

A. Hammond

Wheel Plow.

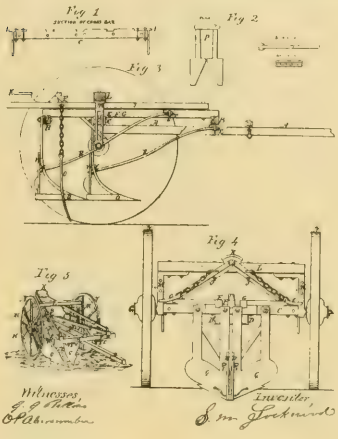
No 53,223 Patented Mar. 27, 1866.



S. M. Lockwood.

Wheel Plow.

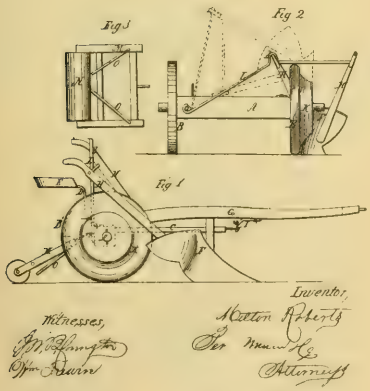
No 53,457. Patented Mar. 27, 1866.



M. Roberts.

Wheel Plow.

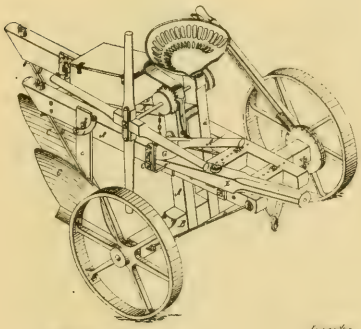
No 53,744. Patented Apr. 3, 1866.



J. B. Stinner

Gang Plow

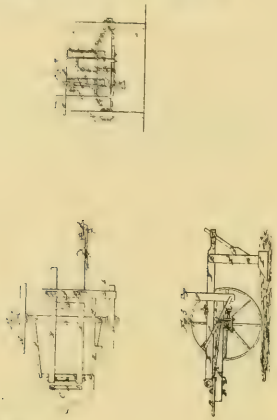
No 54,089. Patented Apr. 17, 1866



C. Flood

Gang Plow

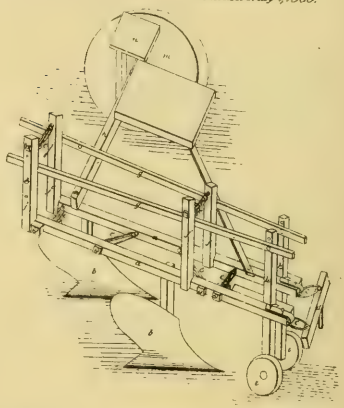
Patented Apr. 24, 1866.



W. M. Watson.

Wheel Plow

No. 54,463. Patented May 1, 1866.



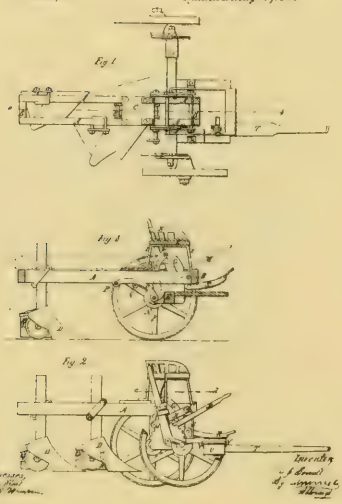
Witnesses

Inventor

T. J. Cornell.

Gang Plow

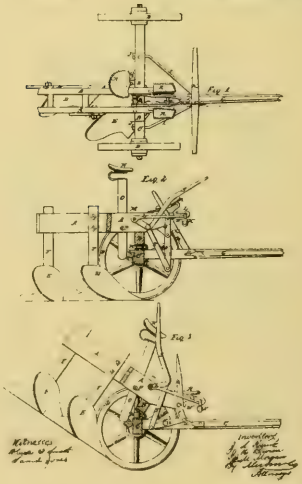
No. 54,673 Patented May 15, 1866



Runk, Brown & Morgan.

Gang Plow

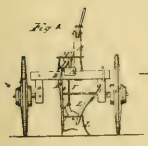
No. 54,963 Patented May 22, 1866.

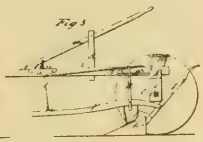


A. Ingalls.

Wheel Plow.

No. 55,108. Patented May 29, 1866.





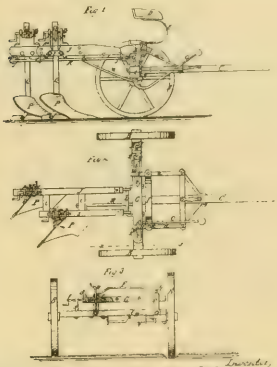
Witnesses
Frank Mann
A. H. McClellan

Inventor
A. Ingalls

J. B. Hunter.

Wheel Plow.

No. 55,660. Patented June 19, 1866.



Witnesses:
J. M. Blanchard
W. Thorn

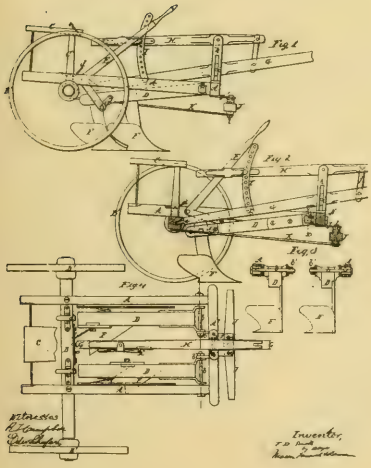
Inventor,
J. B. Hunter
per Munn & Co.
Attorneys

2 Sheets—Sheet 1.

J. D. Smith.

Gang Plow.

No. 55,921. Patented June 26, 1866.



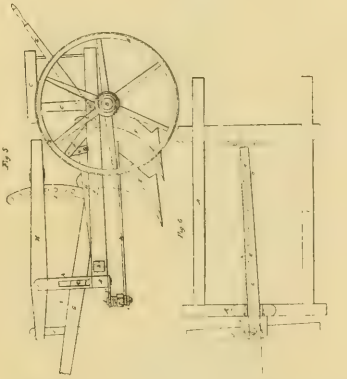
Witnesses
H. J. Coughlin
C. Dwight

Inventor,
J. D. Smith
per Munn & Co.
Attorneys

J. D. Smith.

Gang Plow.

No. 55,921. Patented June 26, 1866.



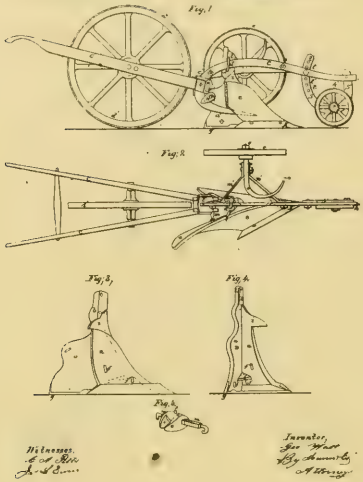
Witnesses
A. J. Coughlin
C. Dwight

Inventor,
J. D. Smith
per Munn & Co.
Attorneys

C. Watt.

Wheel Plow.

No. 56,298 Patented Jul. 10, 1866

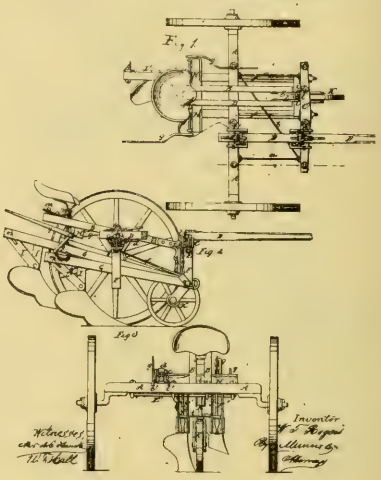


Sheet 1, 2 Sheets.

M. T. Rogers.

Gang Plow.

No. 56,613 Patented Jul. 24, 1866.

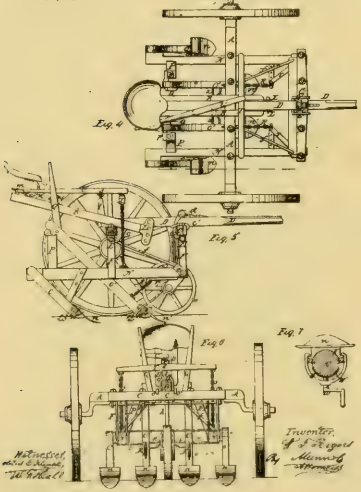


Sheet 1, 2 Sheets.

M. T. Rogers.

Gang Plow.

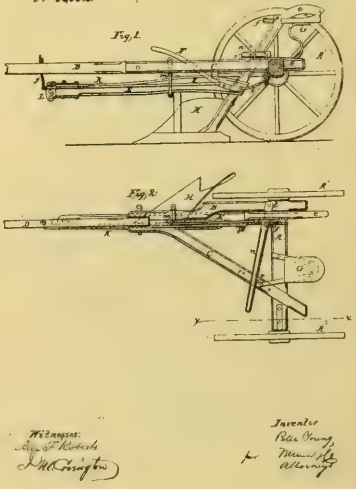
No. 56,613 Patented Jul. 24, 1866.



P. Young.

Wheel Plow.

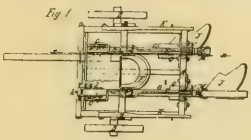
No. 56,662. Patented Jul. 24, 1866.

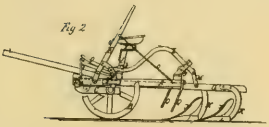


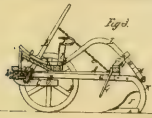
W. Battell.

Gang Plow.

No. 54,879 Patented Aug. 7, 1866.







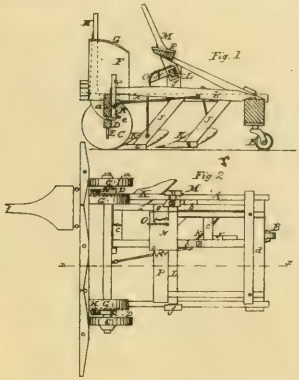
Witnesses,

Inventor,

S. Hutchinson.

Wheel Plow.

No. 58,942. Patented Aug. 7, 1866.



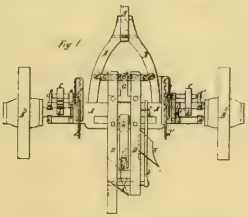
Witnesses:

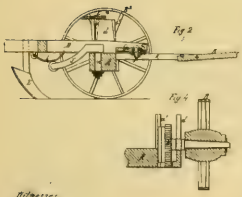
Inventor:

A. H. Burlingame.

Gang Plow.

No. 57,081. Patented Aug. 14, 1866.





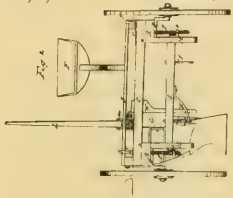
Witnesses

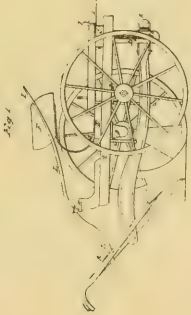
Inventor,

D. Jacoby.

Wheel Plow.

No. 57,147. Patented Aug. 14, 1866.

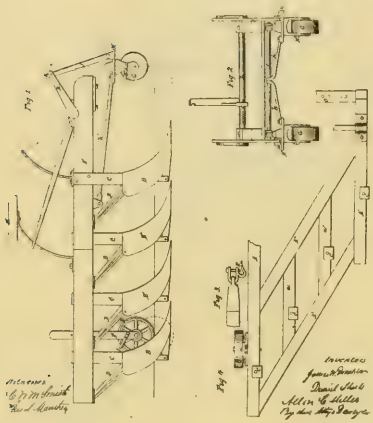




Donaldson, Sheets & Miller.

Gang Plow.

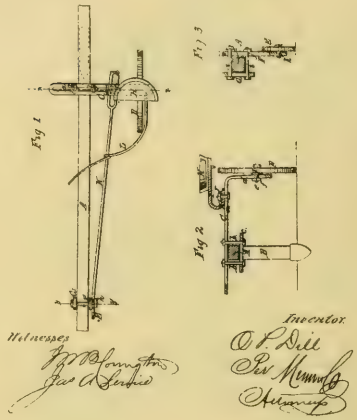
No. 57,888. Patented Sept. 4, 1866.



O. P. Dill.

Wheel Plow.

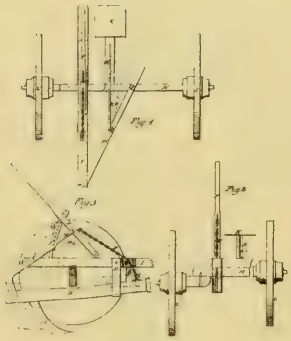
No. 57,875. Patented Sept. [illegible]



R. R. Gaskill.

Wheel Plow.

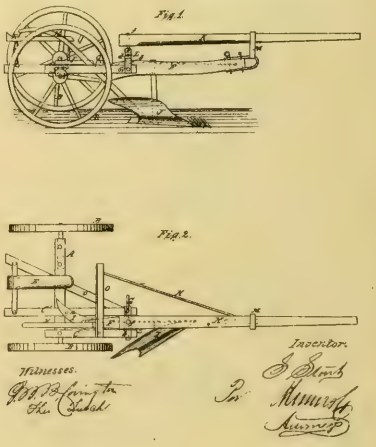
No. 57,889. Patented Sept. 11, 1866.



S. Stout.

Wheel Plow.

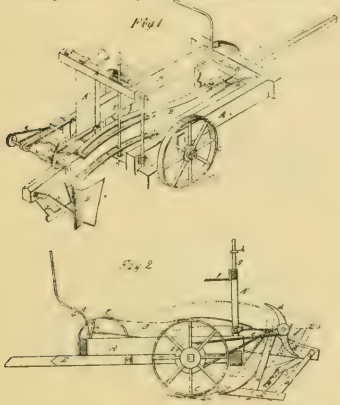
No. 57,992. Patented Sept. 11, 1866.



Summers & Dement.

Wheel Plow.

No. 53,318 Patented Mar. 25, 1866.



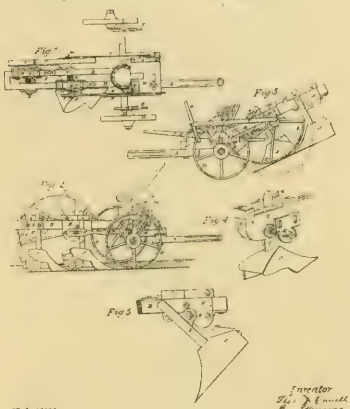
Witnesses
A. A. Dickson
W. C. Clayton

Inventors
R. N. Summers
John E. Dement
by attys.
W. C. Clayton

T. J. Cornell.

Gang Plow.

No. 53,334. Patented Oct. 2, 1866.



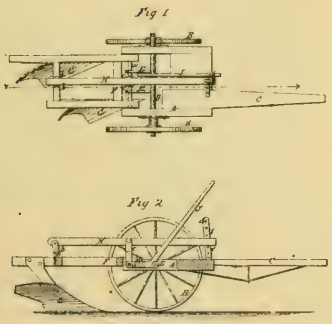
Witnesses
E. F. Drury
Charles F. Reynolds

Inventor
Thos. J. Cornell
by
Dana & Co.
Attorneys

H. N. Dalton

Wheel Plow.

No. 53,386. Patented Oct. 2, 1866.



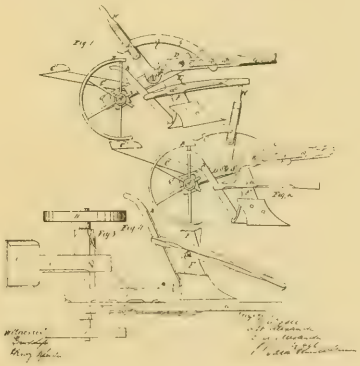
Witnesses
Thos. Ins. d
F. A. Jackson

Inventor
H. N. Dalton
Per Munn & Co.
Attorneys

J. B. Edgell & J. W. & I. N. Alexander.

Wheel Plow.

No. 53,375 Patented Oct. 2, 1866



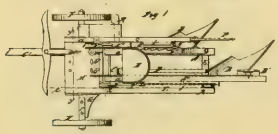
Witnesses
Charles Hale
Henry Hale

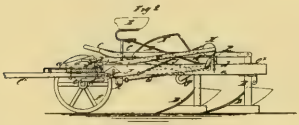
Inventors
J. B. Edgell
J. W. Alexander
I. N. Alexander
by Wm. C. Alexander
Atty.

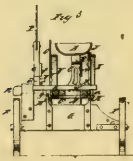
F. S. Davenport.

Gang Plow.

No. 38,512. Patented Oct. 9, 1866.







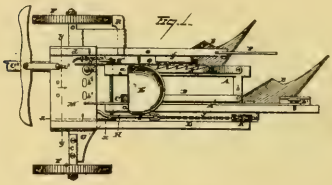
Witnesses
W. B. Torrington
Jas. A. Shaw

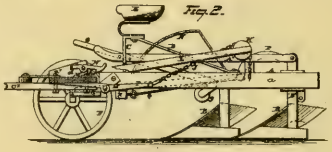
Inventor
F. S. Davenport
per Munn & Co
Attorneys

2 Sheets—Sheet 1

F. S DAVENPORT,
Assignor to R. Newton.
Gang-Plow.

No. 8,986. Reissued Dec. 2, 1879.





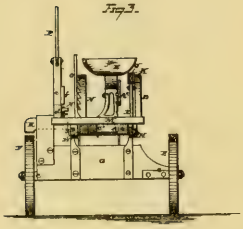
WITNESSES
E. B. Nottingham
A. M. Bright

INVENTOR
F. S. Davenport.
By Dayton & Dayton.
ATTORNEY

2 Sheets—Sheet 2.

F. S DAVENPORT,
Assignor to R. Newton.
Gang-Plow.

No. 8,986. Reissued Dec. 2, 1879.



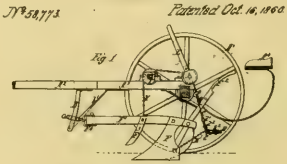
WITNESSES
E. B. Nottingham
A. M. Bright

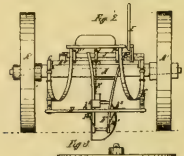
INVENTOR
F. S. Davenport.
By Dayton & Dayton
ATTORNEYS.

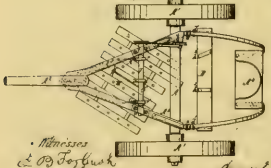
J. E. Gheasebro

Plow and Harrow.

No. 58,773. Patented Oct. 16, 1866.







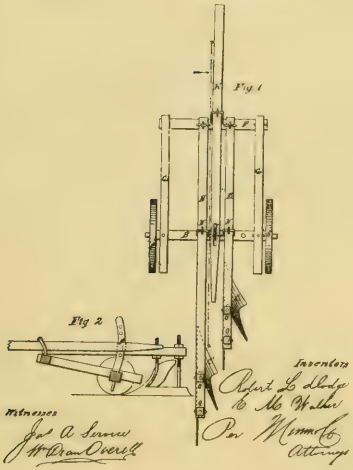
Witnesses
E. P. Foxhugh
B. F. Wells

Inventor,
James E. Gheasebro

Dodge & Walker

Wheel Plow.

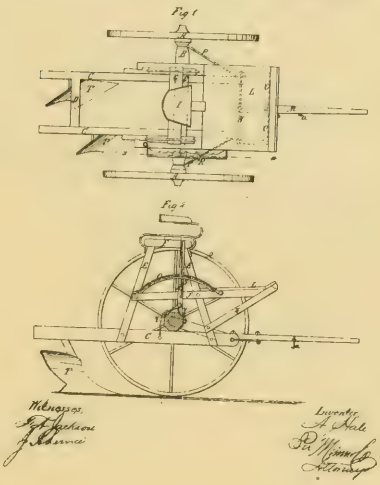
No. 58,788 Patented Oct. 16, 1866



J. Hale.

Gang Plow.

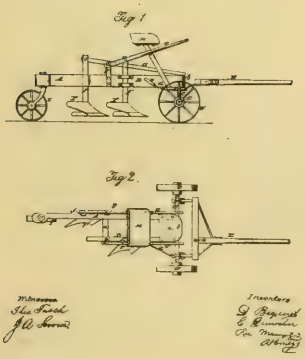
No. 59,590. Patented Nov. 6, 1866.



BEQUERET & DEMOULIN.

Gang-Plow.

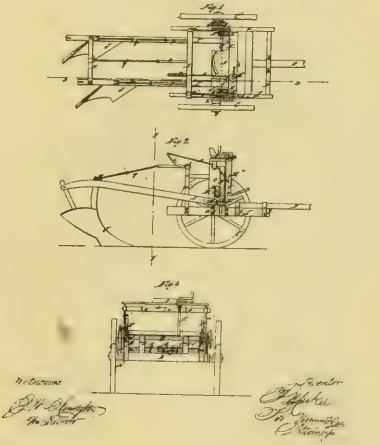
No. 59,813. Patented Nov. 20, 1866



P. Mertel.

Wheel Plow.

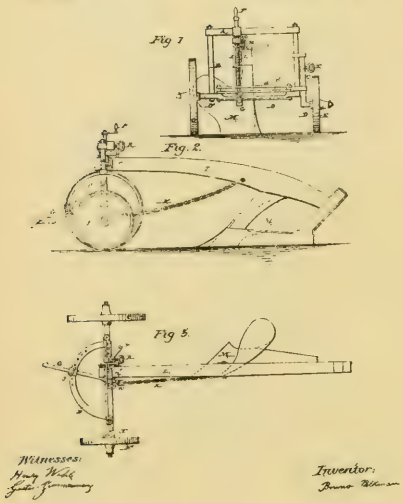
No. 59,856. Patented Nov. 20, 1866.



B. VOLKMANN.

Wheel Plow.

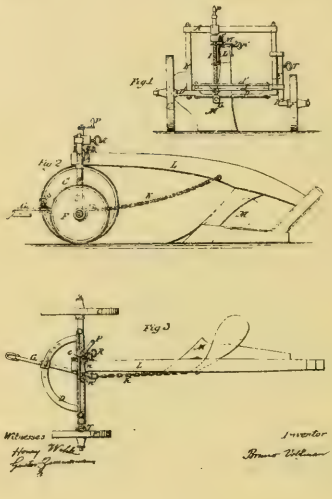
No. 60,095. Patented Nov. 27, 1866.



B. VOLKMANN.

Wheel Plow.

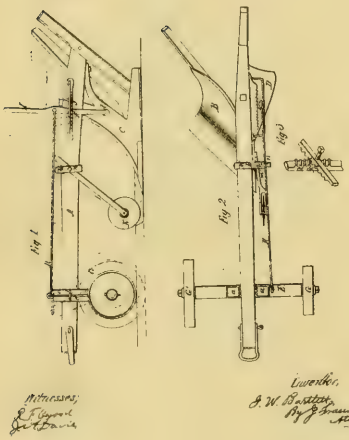
No. 2,703. Reissued July 30. 1867.



I. W. Bartlett.

Wheel Plow.

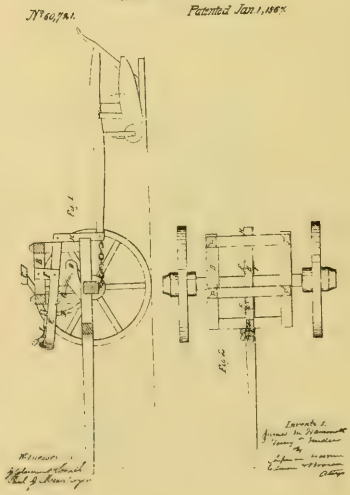
No. 60,461. Patented Dec. 18, 1866.



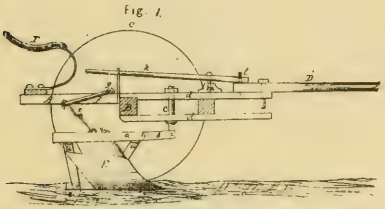
Hammitt & Miller.

Wheel Plow.

No. 60,761. Patented Jan. 1, 1867.



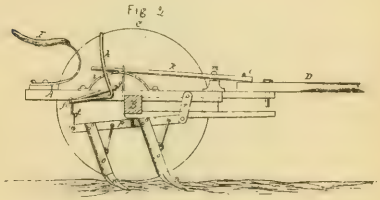
J. H. Barringer.
Cultivator & Sulky Plow.
No. 61,039. Patented Jan. 8. 1867.



Witnesses:
Thos Tusch
J. A. Serrie

Inventor:
J. H. Barringer
Per Munn & Co
Attorneys

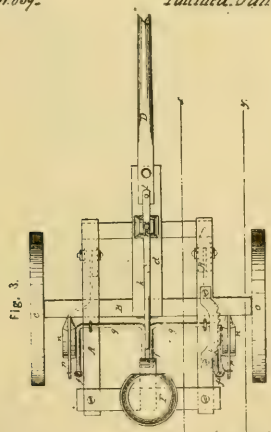
J. H. Barringer.
Cultivator & Sulky Plow.
No. 61,039. Patented Jan. 8. 1867.



Witnesses:
Thos Tusch
J. A. Serrie

Inventor:
J. H. Barringer
Per Munn & Co
Attorneys

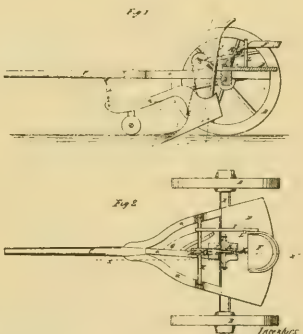
J. H. Barringer.
Cultivator & Sulky Plow.
No. 61,039. Patented Jan. 8. 1867.



Witnesses:
Thos Tusch
J. A. Serrie

Inventor:
J. H. Barringer
Per Munn & Co
Attorneys

Burkett & Gaskill.
Wheel Plow.
No. 61,151. Patented Jan. 15, 1867.



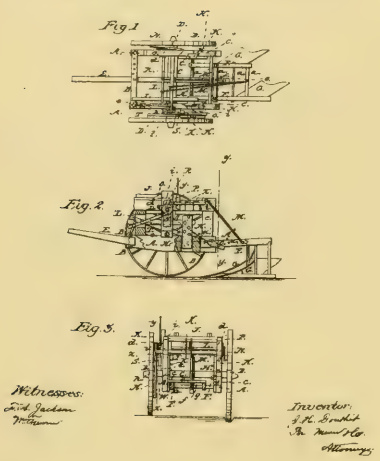
Witnesses
Benjamin
J. A. Serrie

Inventors
Geo. Burkett
Samuel M. Gaskill
Per Munn & Co
Attorneys

J. H. DOUTHIT

Wheel-Plow.

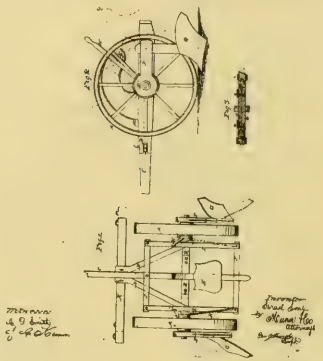
No. 61,408. Patented Jan. 22, 1867.



J. Long.

Wheel Plow.

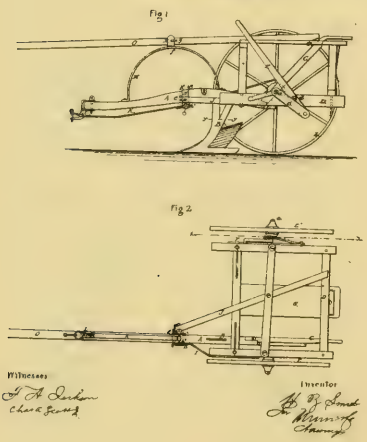
No 61,470. Patented Jan. 22, 1867.



H. B. Smith.

Wheel Plow Attachment.

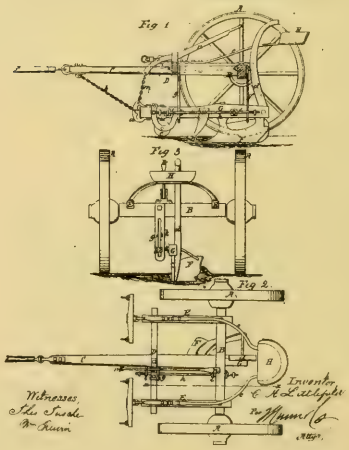
No 61,885. Patented Feb 5, 1867.



C. H. Littlefield.

Wheel Plow

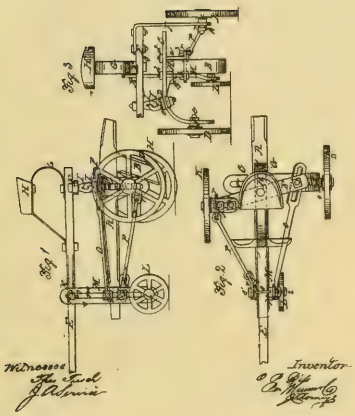
No 62,430. Patented Feb 26, 1867.



C. P. DILS.

Wheel-Plow.

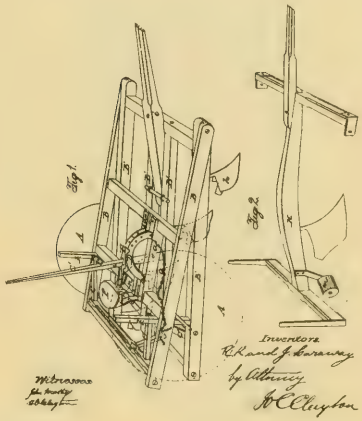
No 62,615 Patented Mar. 5, 1867.



R. K. & J. LARAWAY.

Wheel-Plow.

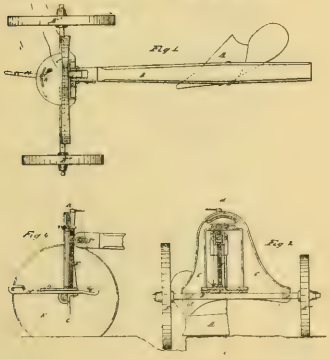
No. 62,641. Patented Mar. 5, 1867



C. Hinzel.

Wheel Plow.

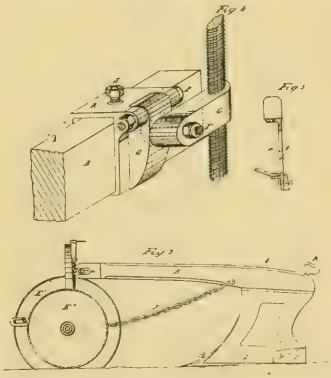
No 63,059. Patented Mar. 19, 1867.

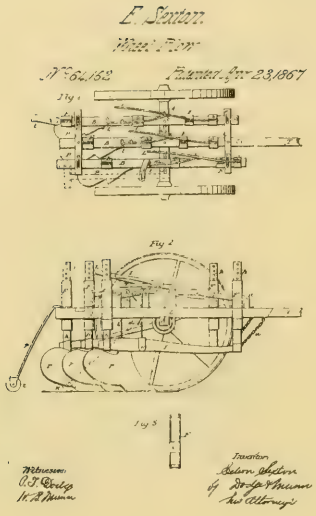


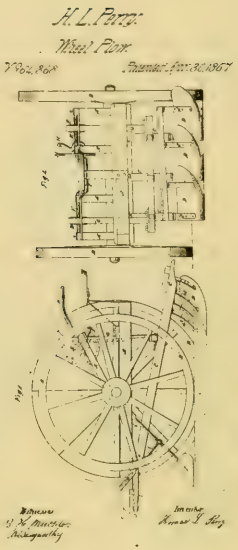
C. Hinzel.

Wheel Plow.

No 63,059 Patented Mar. 19, 1867.





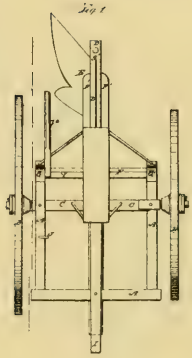


2 Sheets—Sheet 1

E. A. CHACE.

Wheel-Plow.

No 64,839. Patented May 21, 1867.



Witnesses:
Geo. H. Morrison
W. X. Ellinwoodly

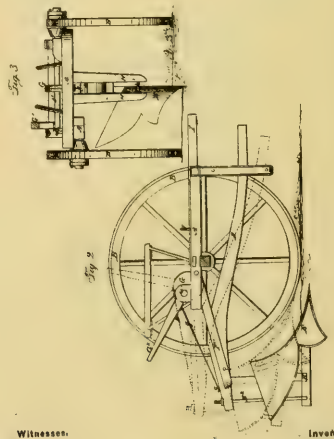
Inventor:
E. A. Chace
per Munn & Co. Attys

2 Sheets—Sheet 2

E. A. CHACE.

Wheel-Plow.

No 64,839. Patented May 21, 1867.



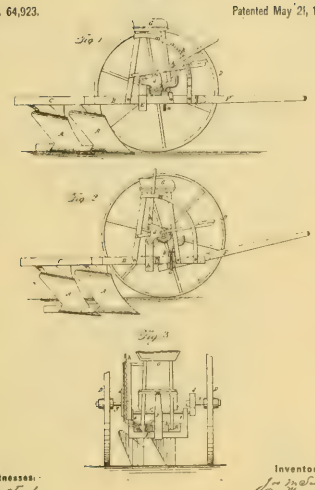
Witnesses:
Geo. H. Morrison
W. X. Ellinwoodly

Inventor:
E. A. Chace
per Munn & Co. Attys

J. W. SURSA.

Wheel Plow.

No. 64,923. Patented May 21, 1867.



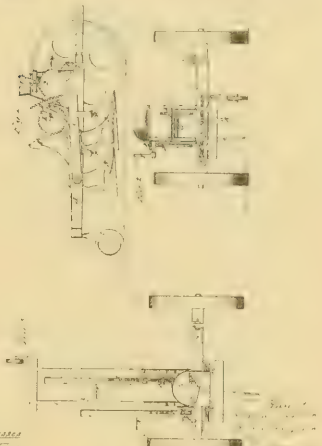
Witnesses:
Geo. O. Fiske
M. Shaw

Inventor.
Jno. W. Sursa
Per Munn & Co
Attorneys

J. & J. Ingham.

Wheel Plow

Patented May 28, 1867

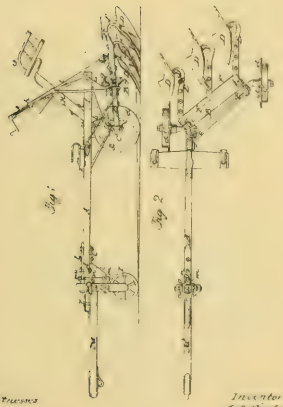


Witnesses
Geo. H. Strong
Wm. M. Smith

L. B. LATHROP.

Wheel-Plow.

No. 64,094 Patented May 28, 1867



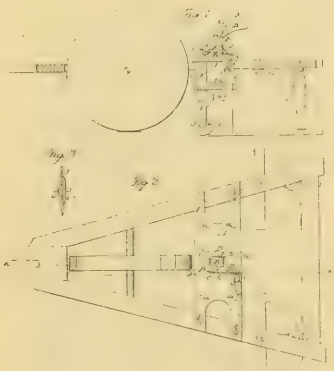
Witnesses
Geo. Fiske
J. Sherman

Inventor
L. B. Lathrop
Per Munn & Co
Attorneys

D. S. FISHER

Wheel-Plow

No. 65,198 Patented May 28, 1867



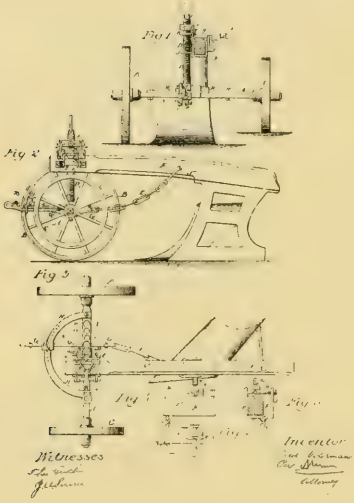
Witnesses
Geo. Fiske
J. Sherman

D. S. Fisher
Per Munn & Co
Attorneys

F. VOLKMANN.

Wheel Plow.

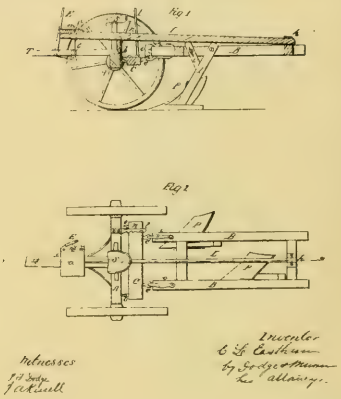
No. 65,709. Patented June 11, 1867.



C. L. Lathrop.

Gang Plow

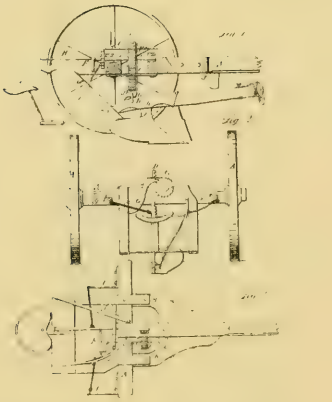
No. 65,798 Patented June 18, 1867.



J. C. ROGERS.

Wheel Plow.

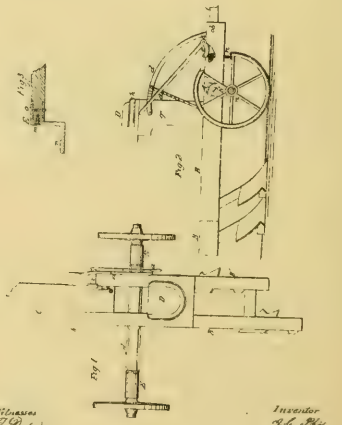
No. 65,834. Patented June 18, 1867.

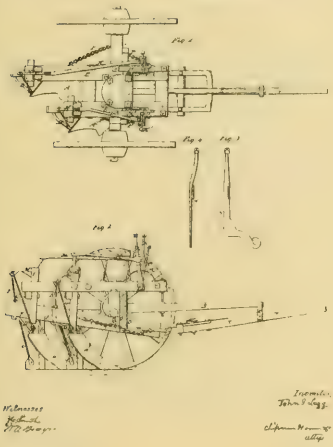


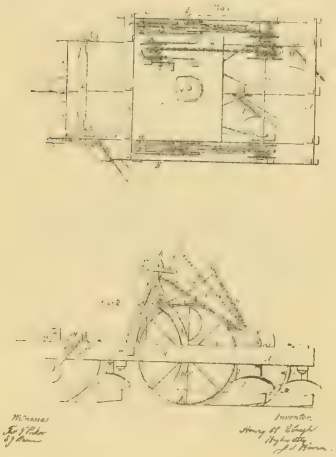
J. C. PFIEL.

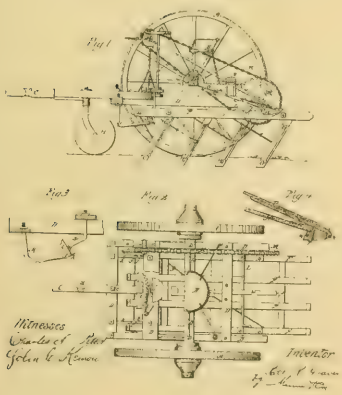
Wheel-Plow.

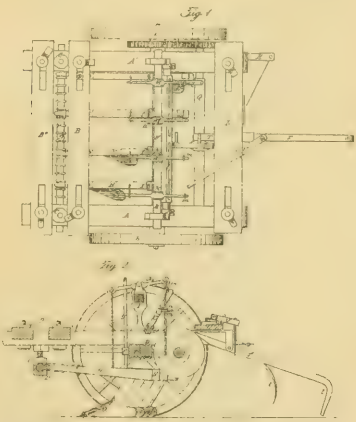
No. 66,047 Patented June 25, 1867




Wheel Plow
Patented Jan 25, 186-
Witnesses
Inventor
Attyy


H. H. BRAUGH
Wheel-Plow
No 66,477
Patented July 9, 1867
Witnesses
Inventor

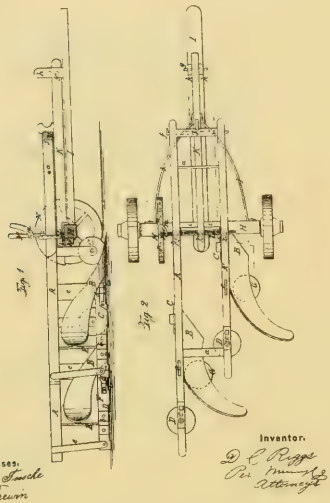

R. R. Graves.
Wheel Plow.
Patented Jul. 9, 1867.
Witnesses
Inventor


J. L. SPENCER.
Wheel Plow.
No 66,748.
Patented July 16, 1867.
Witnesses.
Inventor.

D. C. RIGGS.

Gang Plow.

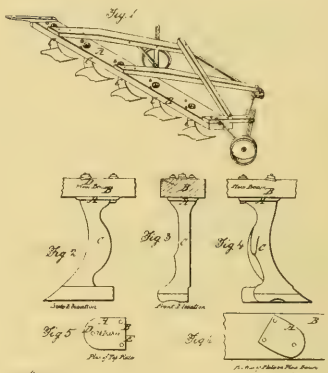
No. 67,351. Patented July 30, 1867.



R. BAXTER.

Gang-Plow

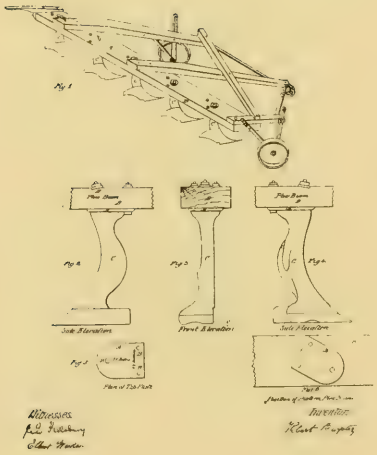
No 67,483. Patented Aug 6, 1867.



R. Baxter.

Gang Plow.

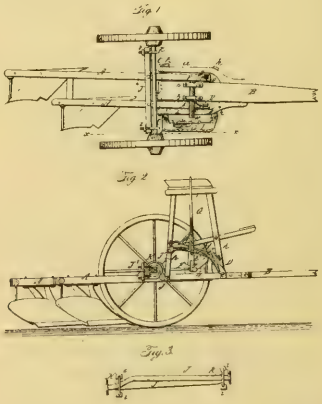
No 3,244. Reissued Dec 24, 1868



A. T. COVELL.

Gang-Plow.

No. 67,501. Patented Aug 6. 1867.



J. D. Kincaid.

Wheel Plow.

No. 67,772. Patented Aug. 13, 1867.

Fig. 1

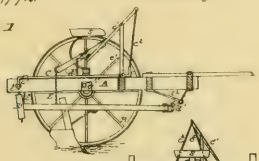


Fig. 2.

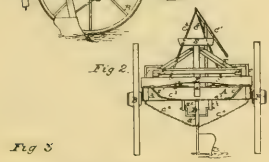
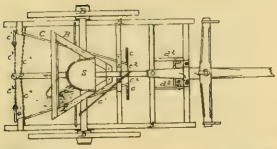


Fig. 3



Witnesses:

Inventor.

H. P. Stafford.

Wheel Plow

No. 67,812. Patented Aug. 13, 1867.

Fig. 1

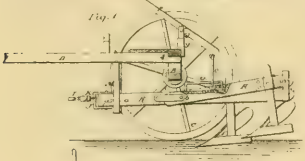
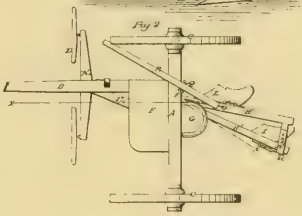


Fig. 2



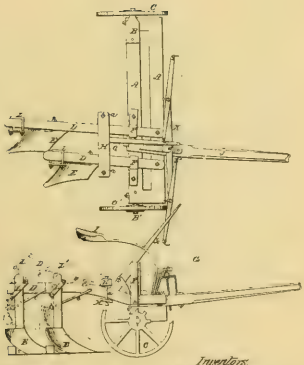
Witnesses:

Inventor:

S. I. & G. M. GILLHAM.

Wheel Plow.

No. 68,065. Patented Aug. 27, 1867.



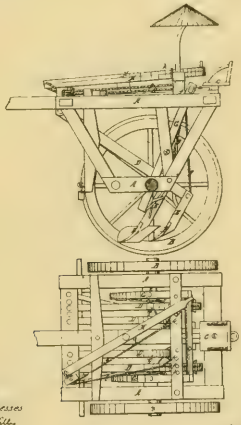
Witnesses

Inventors.

G. C. Avery

Gang Plow

No. 68,271. Patented Aug. 27, 1867.



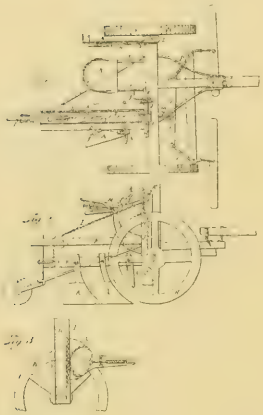
Witnesses

Inventor

H. J. WATTLES.

Wheel Plow.

No. 68,673. Patented Sept. 10, 1867.



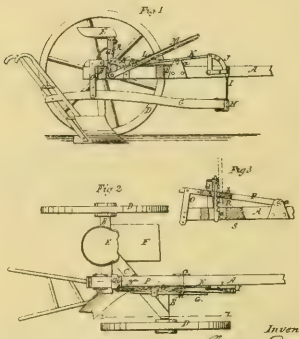
Witnesses.

Inventor.

L. DOMING

Wheel-Plow

No. 68,716 Patented Sept. 10, 1867.



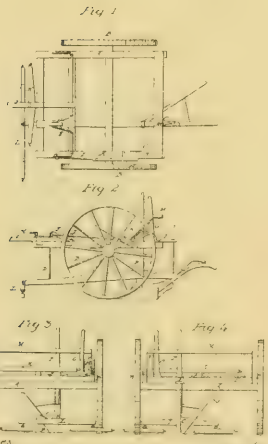
Witnesses

Inventor

J. MINUSE

Wheel-Plow.

No 68 777 Patented Sept 10 1867



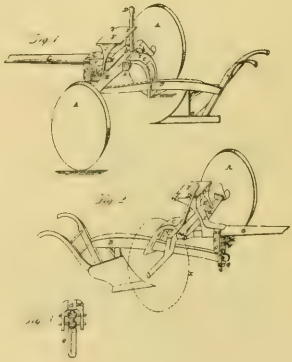
Witnesses

Inventor

M. S. CURTISS.

Wheel-Plow.

No. 69,323. Patented Oct. 1, 1867.



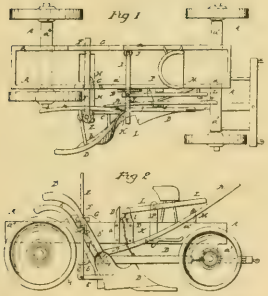
Witnesses.

Inventor.

J. L. KEASUR

Wheel-Plow

No. 69,678 Patented Oct. 8, 1867



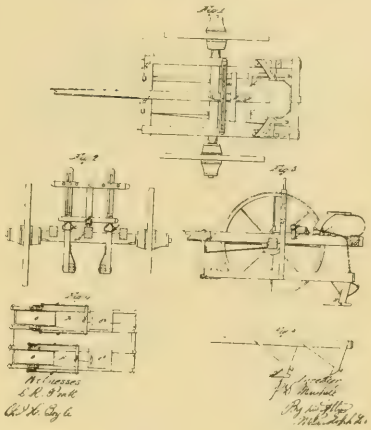
Witnesses
Thos. Tirshe
J. Adam Keasur

Inventor
John L. Keasur
Per Munn & Co
Attorneys

J. F. Munson

Wheel-Plow

No. 70,237. Patented Oct. 29, 1867.



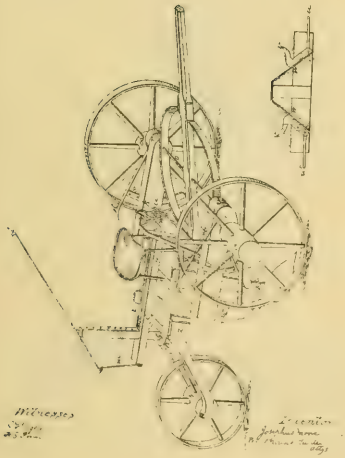
Witnesses
E. R. Park
C. H. Taylor

Inventor
J. F. Munson
By Munn & Co
Attorneys

J. MOORE

Wheel-Plow.

No. 70,243 Patented Oct. 29, 1867



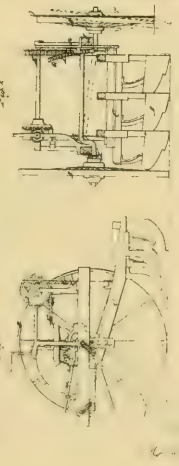
Witnesses

Inventor

H. L. Perry.

Wheel Plow

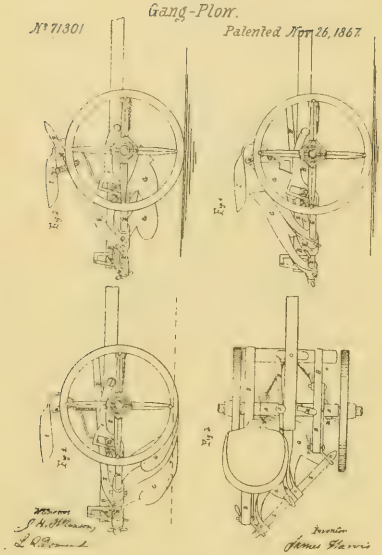
No. 71,053 Patented Nov. 19, 1867.



Witnesses

Inventor

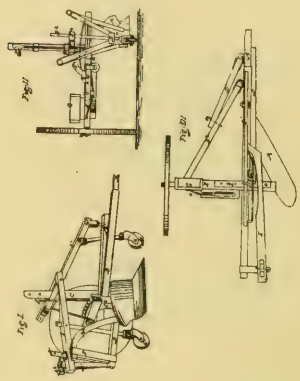
J. Harris.
Gang-Plow.
No 71301 Patented Nov 26, 1867.



Witnesses
J. H. Williams
L. R. Bennett

Inventor
James Harris

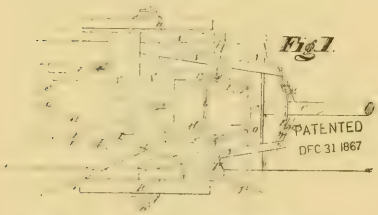
I. Donaldson.
Sulky-Plow.
No 72375 Patented Dec. 17, 1867.



Witnesses
Geo. E. Bennett
L. Murphy

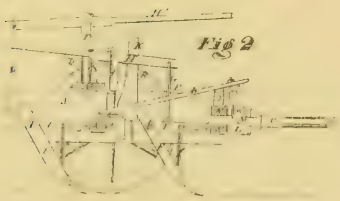
Inventor
Isaac Donaldson
By
D. P. Holloway Jr.
his Atty

William Foster.
72730
Gang Plow.

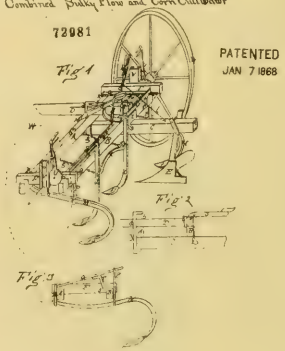


Witnesses
H. McKeown
D. Sheffler

Wm Foster
By Knight Bros
Attorneys



W. G. Crosley
Combined Stalk Plow and Corn Cutter
72081



Witnesses.
A. Hayward
L. F. Pettit

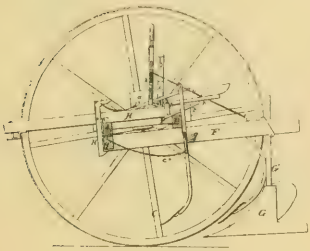
Inventor.
Wm G. Crosley
By his Attorney
Geo. E. Ashopin

3 Sheets—Sheet 1.

WILLIAM G. CROSSLEY.

Improvement in Wheel-Plows.

No. 4,928. Fig. 1. Reissued June 4, 1872.



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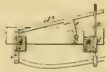


WITNESSES.
George Ellephaus.
A. D. Kane

INVENTOR.
William G. Crossley.
Chipman Brown & Co
Attys

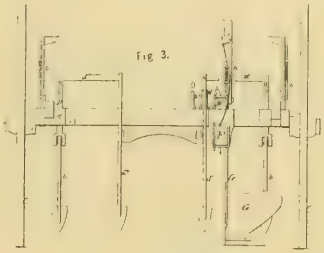
3 Sheets—Sheet 2.

WILLIAM G. CROSSLEY.

Improvement in Wheel-Plows.

No. 4,928. Reissued June 4, 1872.

Fig. 3.



WITNESSES.
George Ellephaus.
A. D. Kane.

INVENTOR.
William G. Crossley.
Chipman Brown & Co
Attys

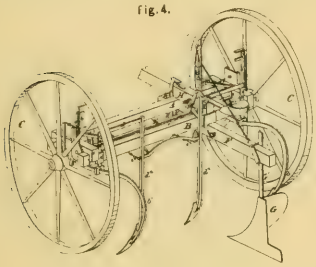
3 Sheets—Sheet 3.

WILLIAM G. CROSSLEY.

Improvement in Wheel-Plows.

No. 4,928. Reissued June 4, 1872.

Fig. 4.

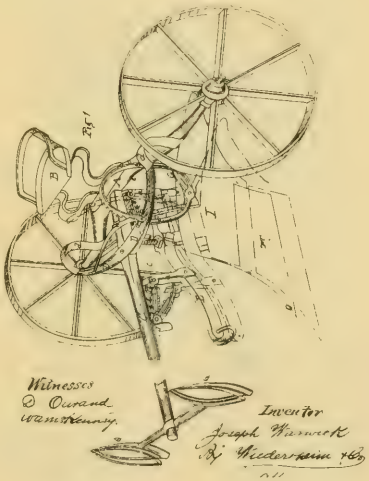


WITNESSES.
E. W. Baker
Geo. Ellephaus.

INVENTOR.
William G. Crossley
Chipman Brown & Co
Attorneys

2 Sheet
Sheet 1

J. Warrick
Sulky-Plow.
No. 73,143 Patented Jan 7, 1868

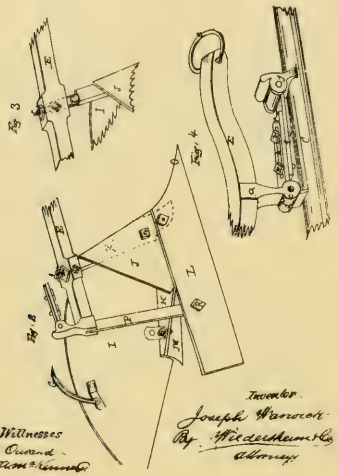


Witnesses
D. Durand
Wm. Kenny

Inventor
Joseph Warrick
By Wedderburn & Co
Att

2 Sheets Sheet 1

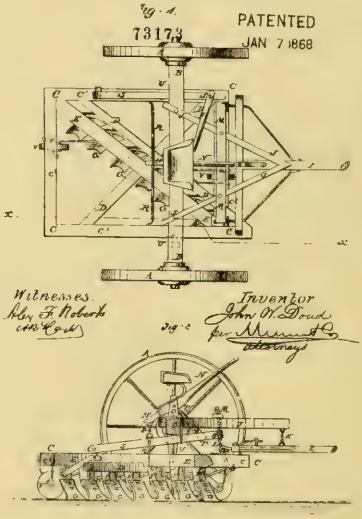
J. Warwick.
Sulky-Plow.
No 73143 Patented Jan. 7, 1868.



Witnesses
Wm. Ouvand
Wm. Kennedy

Inventor
Joseph Warwick
By Widenhamm & Co
Attorneys

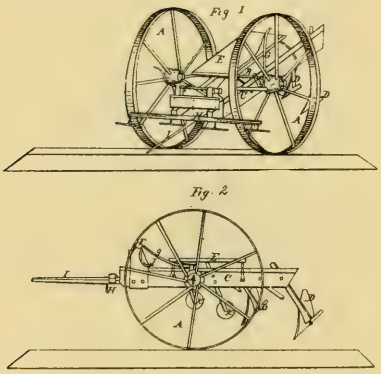
John W. Doud Cultivator.



Witnesses.
Robt. F. Roberts
Wm. Ford

Inventor
John W. Doud
per Munn & Co
Attorneys

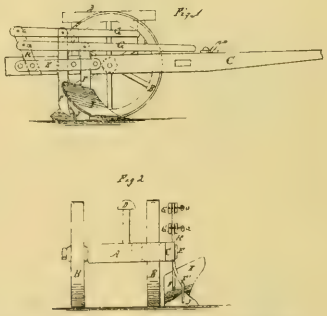
S. Way.
Gang-Plow.
No 73480 Patented Jan. 21, 1868.



Witnesses
Robert A. Herrd
James A. Herrd

Inventor
Seth Way

D. W. Hughes.
Plow.
No 73607 Patented Jan. 21, 1868



Witnesses.
W. C. Ashkettle
Thos Tuohe

Inventor
D. W. Hughes
per Munn & Co
Attorneys

A. Farrow Gang Plow

73707

PATENTED JAN 28 1868

Figure 1

Figure 2

Witnesses
H. Sells
R. Bierney

Inventor
A. Farrow
by his Atty
M. Rankin & Co.

W. W. Mathews.
Gang-Plow.
No 74238 Patented Feb 11 1868

FIG 1

FIG 2

FIG 3

FIG 4

Witnesses
W. H. Hazlett
J. H. Kearney

Inventor
W. W. Mathews

A. Q. Allis' PATENTED FEB 11 1868

74268

"Impd. Sulky Plough."

Fig 1

Fig 2

Fig 3

Witnesses
J. H. Hopkins
Albert R. Smith

Inventor
A. Q. Allis
by Dodge & Co

Elias Levee, Sulky Plow.

74554

Fig 1

PATENTED FEB 18 1868

Fig 2

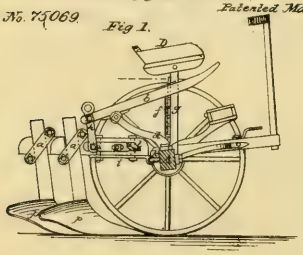
Witnesses
H. G. Apgeller
Geo. Smith

Inventor
Elias Levee
per Munn & Co
attorneys

G. Steinegger, Plow.

No. 75069. Patented Mar. 3. 1868

Fig 1.



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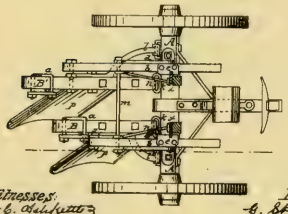


Witnesses:
H. C. Dellutt
Geo. Fuchs.

Inventor:
G. Steinegger
per Munn & Co
Attorneys

C. Hess.
Gang-Plow.

No 75268 Patented Mar. 10. 1868.

Fig 1

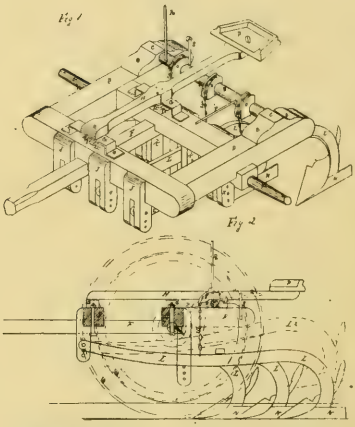


Fig 2

Witnesses
W. W. Dodge
A. Rhodes

Inventor
Charles Hess

Sheet 1 2 Sheets.

W. Nelson.
Gang-Plow.

No 75567 Patented Mar. 17, 1868.

Fig 1

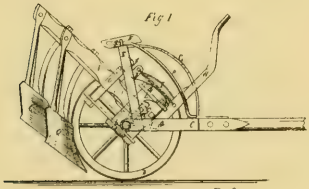


Fig 2.

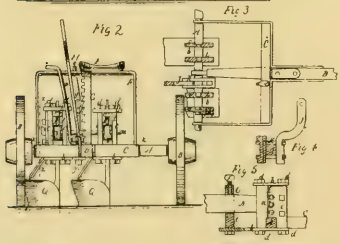


Fig 3

Fig 4

Fig 5

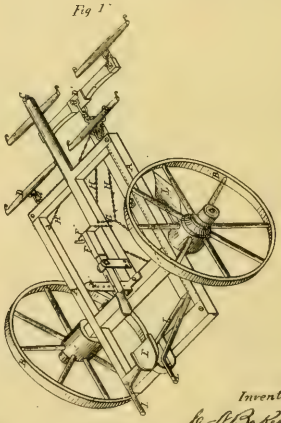
Witnesses
Geo. Fuchs
J. A. Fox

Inventor
W. Nelson
per Munn & Co
Attorneys

C. N. Bakewell's
Sulky-Plow & Harrow.

No 75,332. Patented Mar. 24. 1868.

Fig 1

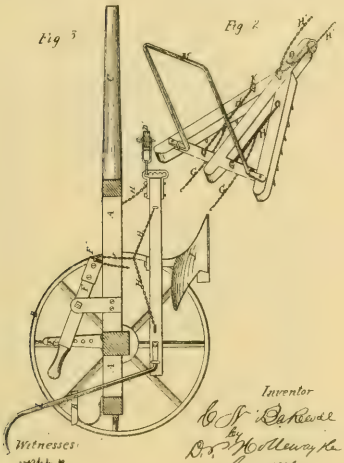


Witness:
N. T. Wolcott

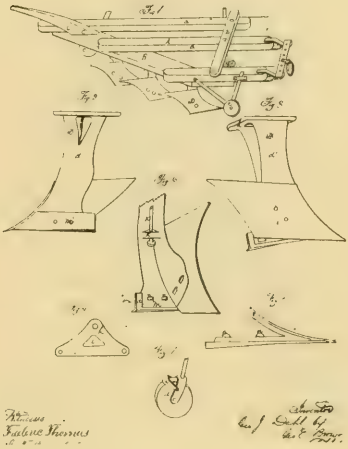
Inventor
C. N. Bakewell
by
D. T. Holloway
Attys.

Sheet 2. 2 Sheets

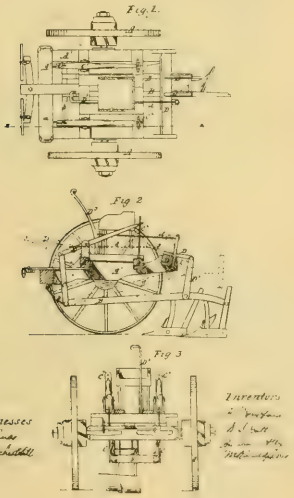
C. N. Bakewell
Sulky Plow and Harrow.
No. 75,832. Patented Mar. 24, 1868.



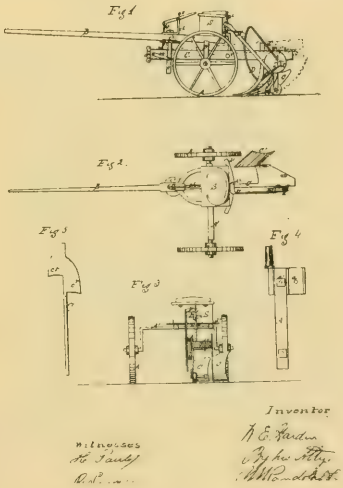
G. J. Dahl
Gang-Plow.
No. 75871 Patented Mar. 24, 1868



W. S. Gatlin and B. R. Hubbard,
Gang-Plow.
No. 75,895 Patented Mar. 24, 1868.



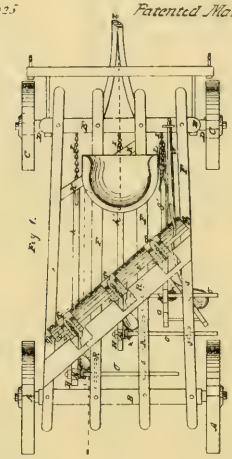
W. E. Hardin,
Gang-Plow.
No. 75,901. Patented Mar. 24, 1868.



Sheet 1. 2 Sheets

J. L. Keasor,
Plow

No. 75,925 Patented Mar. 24. 1868.



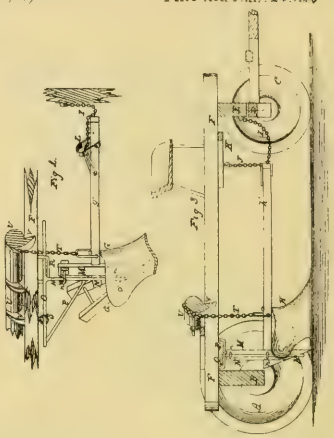
Witnesses
H. C. Goldsborough
Wm. A. Morgan

Inventor
J. L. Keasor
per Munn & Co
Attorneys

Sheet 2. 2 Sheets

J. L. Keasor
Plow.

No. 75,925 Patented Mar. 24. 1868

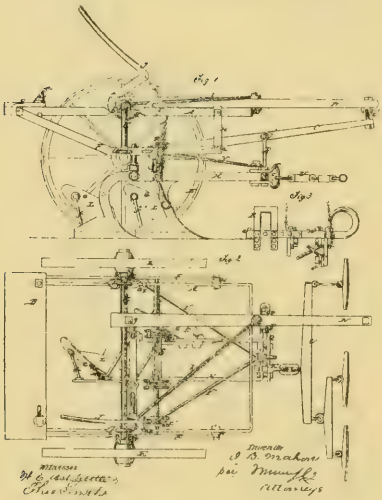


Witnesses
H. C. Goldsborough
Wm. A. Morgan

Inventor
J. L. Keasor
per Munn & Co
Attorneys

I. B. Mahon,
Cultivator and Plow.

No. 75,941. Patented Mar. 24. 1868

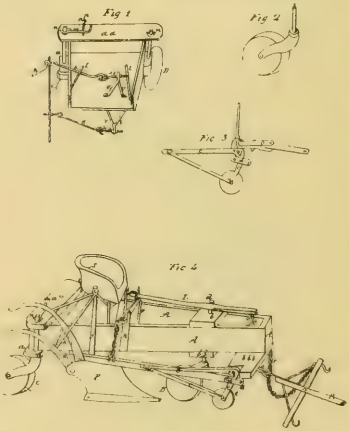


Witnesses
H. C. Goldsborough
Chas. Smith

Inventor
I. B. Mahon
per Munn & Co
Attorneys

G. F. Willey
Plow-Carriage

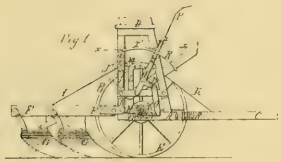
No. 76,283 Patented Mar. 31. 1868.

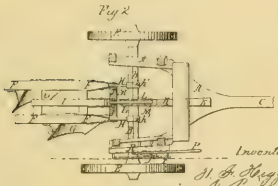


Higgins & Perry

Wheel Plow

No. 76,447. Patented Apr. 7, 1868





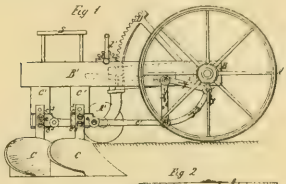
Witnesses
Geo. Lovell
A. Fowler

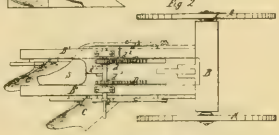
Inventors
H. A. Higgins
J. Perry
Per Munn & Co
Attorneys

M. Flynn.

Wheel Plow

No. 76,735. Patented Apr. 14, 1868.





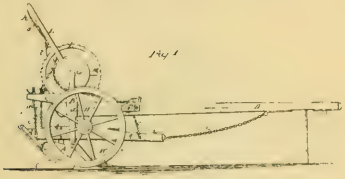
Witnesses:
S. S. Schuster
Geo. W. Webster

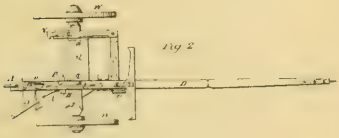
Inventor,
M. Flynn
By his Atty
M. Munn & Co.

B. W. Sutherlen.

Wheel Plow

No. 76,848. Patented Apr. 14, 1868.





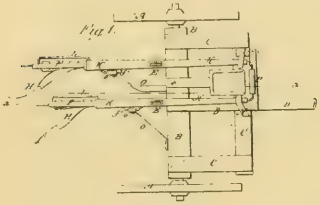
Witnesses:
S. G. Lemon
W. A. Blanchard

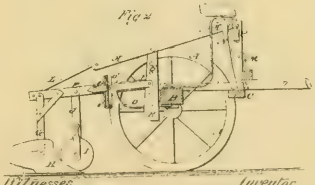
Inventor
B. W. Sutherlen
By Munn & Co
Attorneys

W. Gallagher.

Wheel Plow.

No. 77,272. Patented Apr. 28. 1868.

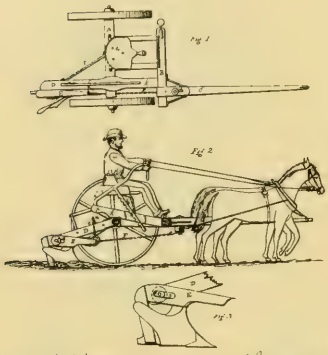




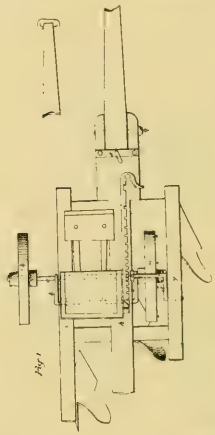
Witnesses.
W. C. Wakefield
Wm. R. Morgan.

Inventor.
Wm. Gallagher
per Munn & Co

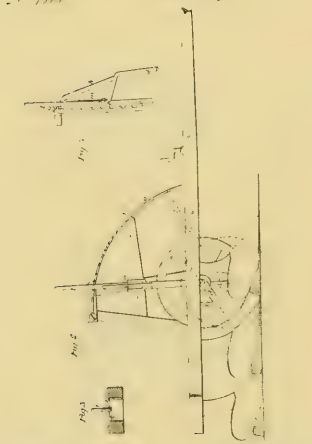
L. Hunt,
Wheel Plow.
No. 77,617. Patented May 5, 1868.



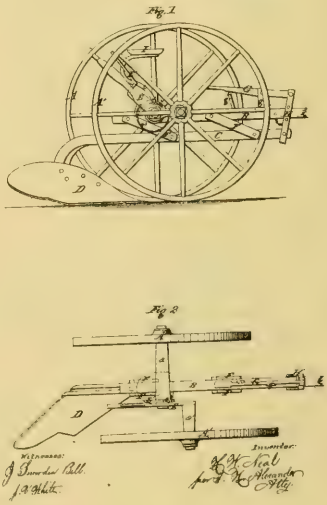
G. W. Marzal. 2 Sheets-Sheet 1.
Wheel Plow.
No. 78,111. Patented May 19, 1868.



G. W. Marzal. 2 Sheets-Sheet 2.
Wheel Plow.
No. 78,111. Patented May 19, 1868.



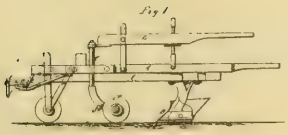
K. W. Neal,
Wheel Plow.
No. 78,390. Patented May 26, 1868.

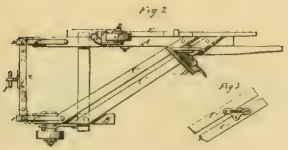


D. C. Mattson,

Wheel Plow.

No. 78,461. Patented June 2, 1868.





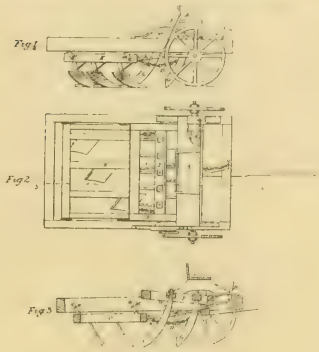
Witnesses
O. H. Ashkettle
W. A. Morgan

Inventor
D. C. Mattson
per Munn & Co
Attorneys

Brown & Gerth.

Wheel Plow.

No. 78,736. Patented June 9, 1868.



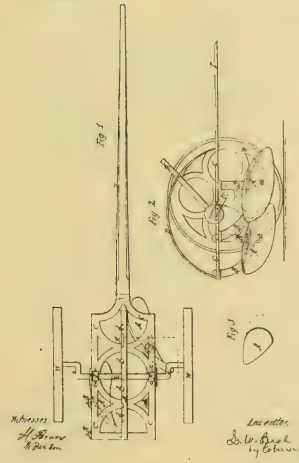
Witnesses
Geo. Smith
C. H. Duncan

Charles Brown
Lorenzo Gerth
by Their Attorney

I. W. Bear.

Wheel Plow.

No. 78,850 Patented June 16, 1868.



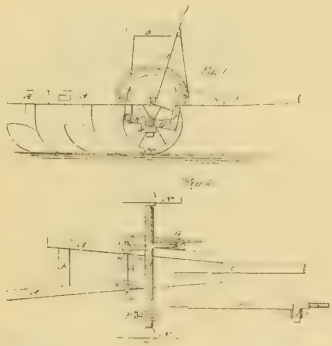
Witnesses
H. Brown
H. Barton

Inventor
Isaac W. Bear
by Edmund Mann

G. A. Davison.

Wheel Plow.

No. 79,039. Patented July 1, 1868.



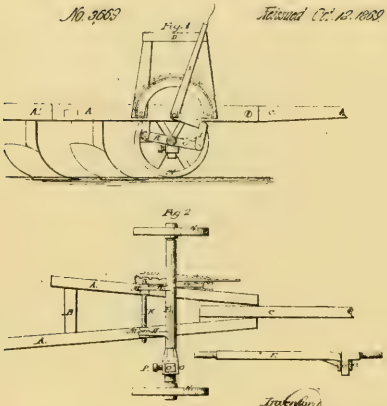
Witnesses.
Geo. L. Borne
Geo. W. Young.

Inventor:
G. A. Davison
By his Attys
Munn & Co.

G. A. Dawson,

Gang Plow.

No. 3663 Reissued Oct. 12, 1869.



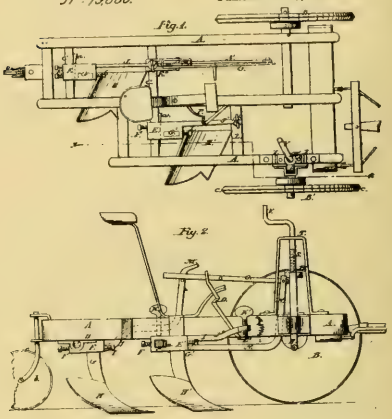
Witnesses:
Wm. L. Byrne
Geo. H. Storey

Inventor:
G. A. Dawson
By Munn & Co.
Attorneys

J. T. Watkins.

Wheel Plow.

No. 79,880. Patented Jul. 14, 1868.



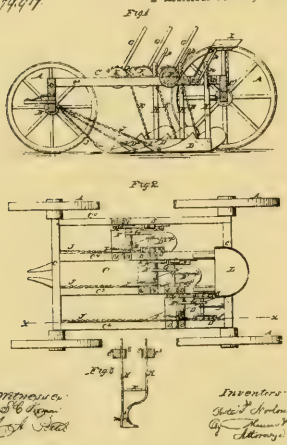
WITNESSES
J. E. Byrne.
J. E. [illegible]

INVENTOR
Jas. T. Watkins
Per Dewey & Co.
Attys.

Porter & Norton.

Wheel Plow.

No. 79,917. Patented Jul. 14, 1868.



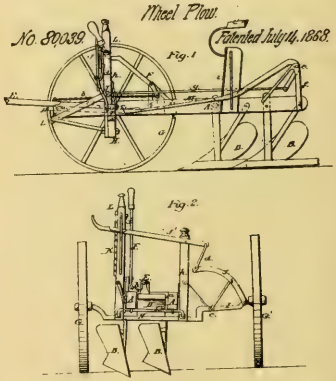
Witnesses:
S. H. Hogan
[illegible]

Inventors:
Peter J. Norton
By Munn & Co.
Attorneys

G. Wharton.

Wheel Plow.

No. 80,039. Patented July 14, 1868.



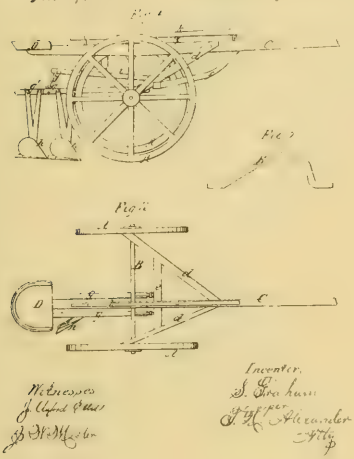
WITNESSES:
Wm. S. Hogan
J. E. Gordon

INVENTOR:
Geo. Wharton
Per Munn & Co.
Attorneys

S. Freeman,

Wheel Plow.

No. 80,405. Patented July 28, 1868.



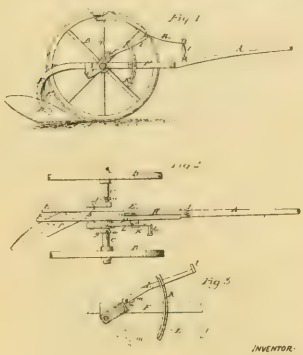
Witnesses
J. Clifford Allen
B. W. Mayer

Inventor.
S. Freeman
By his Atty
J. Alexander Fitly

B. Slusser,

Wheel Plow,

No. 80,427. Patented July 28, 1868.



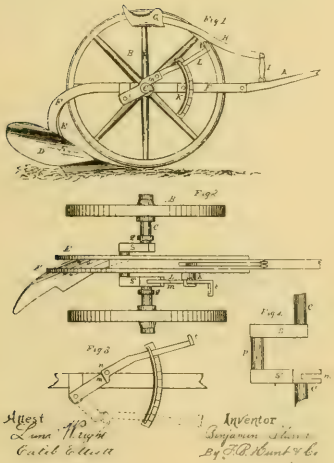
WITNESSES
John G. Kinnan
Robert A. Grell

INVENTOR.
Benj. Slusser
By Munn & Co
Attorneys

B. SLUSSER.

Sulky-Plow.

No. 6,563. Reissued July 27, 1875.



Attest
Luna Wright
Caleb Ellett

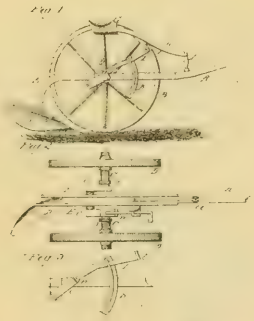
Inventor
Benjamin Slusser
By F. P. Hunt & Co
Atty

B. SLUSSER.

Assignor, by mesne assignments, to F. B. Hunt, J. B. Fisher and A. McCallum

Sulky-Plow

No. 7,973. Reissued Nov. 27, 1877.



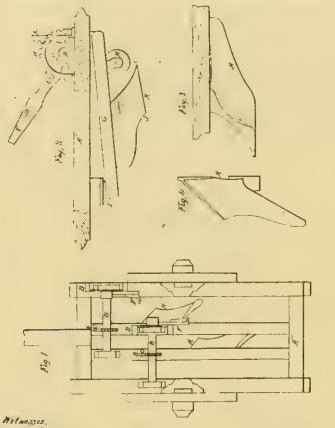
Witnesses
Wm. J. Stetson
Geo. P. Dunn

Inventor
Benjamin Slusser
by
A. McCallum

A. Walker.

Gang Plow.

No. 80,[illegible] Patented Jul. 28, 1868.



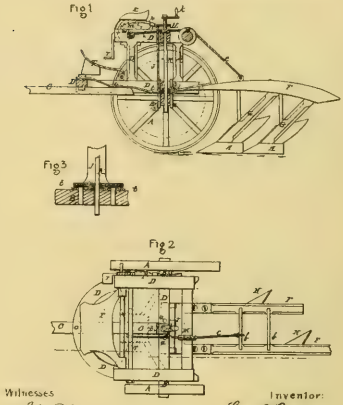
Witnesses.
H. S. Banks
W. Pelizzell

Inventor,
Andrew Walker

Smith & Watson.

Wheel Plow.

No. 80,838. Patented Aug. 11, 1868.



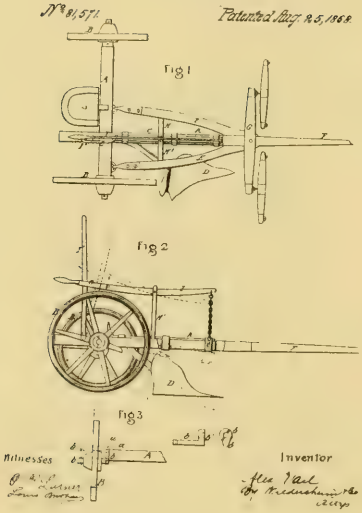
Witnesses
S. H. Nesmith
C. A. Pratt

Inventor:
Smith & Watson
By Munn & Co
Attorneys

A. Vail.

Wheel Plow.

No. 81,571. Patented Aug. 25, 1868.



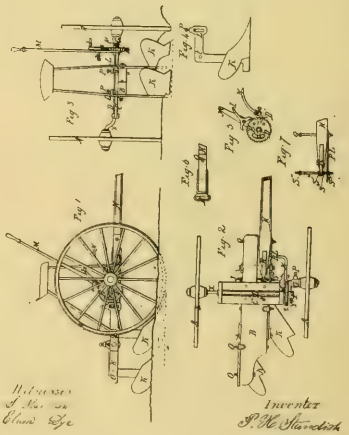
Witnesses
[illegible]

Inventor
Alex Vail
By Wedderburn & Co
Attys

P. H. Standish.

Gang Plow.

No. 81,700. Patented Sept. 1, 1868.



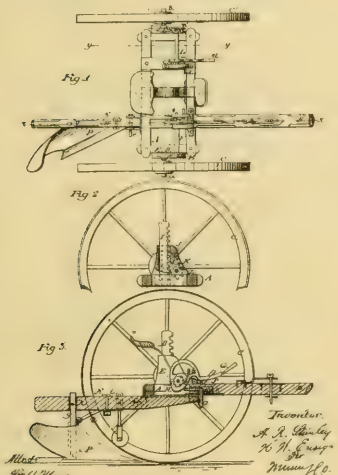
Witnesses
[illegible]

Inventor
P. H. Standish

Stanley & Ensign.

Wheel Plow.

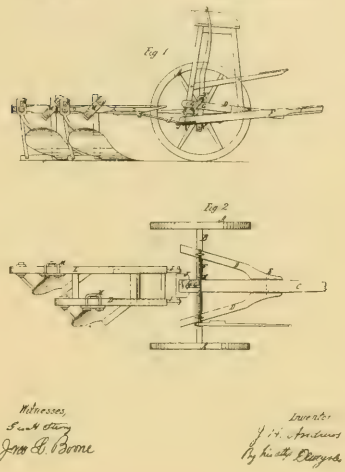
No. 81,701. Patented Sept. 1, 1868.



J. H. Andrews

Gang Plow.

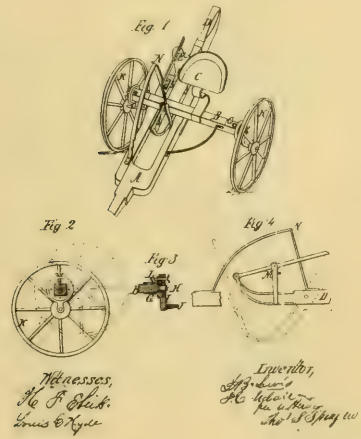
No. 81,724. Patented Sept. 1, 1868.



Lewis & Udall.

Wheel Plow.

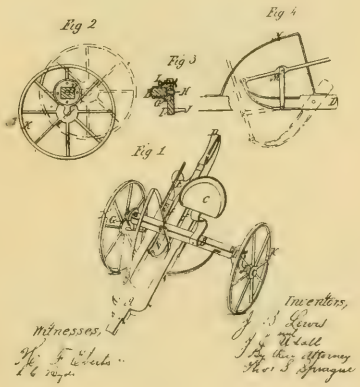
No. 81,799. Patented Sept. 1, 1868.



Lewis & Udall.

Sulky Plow.

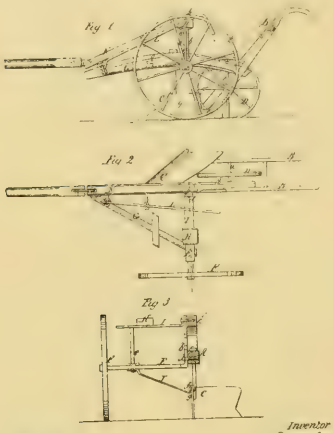
No. 3330. Reissued Nov. 23, 1869.



J. R. McConnell.

Wheel Plow.

No. 82,140. Patented Sept. 15, 1868.



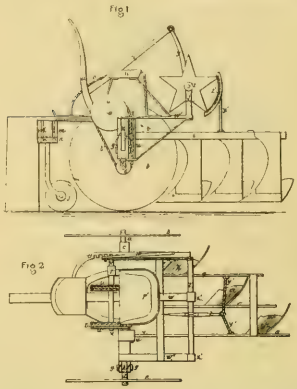
Witnesses
W. L. Abbott
H. C. Morgan

Inventor
J. R. McConnell
per Munn & Co
attorneys

F. P. Smith.

Wheel Plow.

No. 82,165. Patented Sept. 15, 1868.



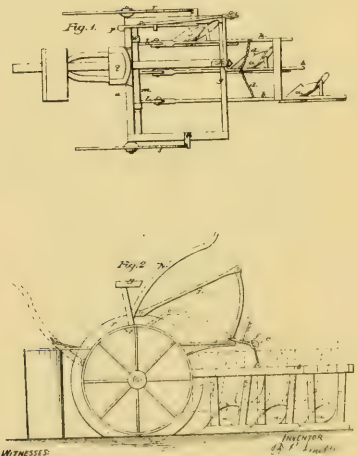
Witnesses
J. Smith
S. E. Jones

Inventor
F. P. Smith
By his atty Thos. G. Ennis

F. P. Smith.

Wheel Plow.

No. 82,166. Patented Sept. 15, 1868.



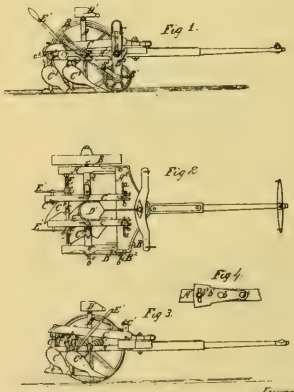
Witnesses:
J. Smith
S. E. Jones

Inventor
F. P. Smith
per W. H. Davis
Attorney

C. L. Horn, Jr. & L. Maney.

Wheel Plow.

No. 82,223. Patented Sept. 15, 1868



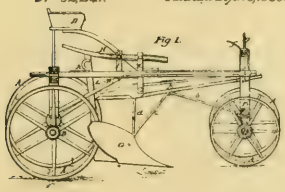
Witnesses.
J. Brandon
J. W. Kuhl

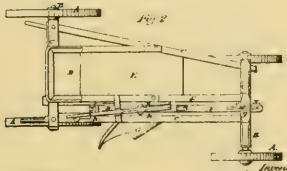
Inventors;
C. L. Horn Jr.
L. Maney
by their atty
W. H. Davis

N. B. Norton.

Wheel Plow.

No. 82,241. Patented Sept. 15, 1868.





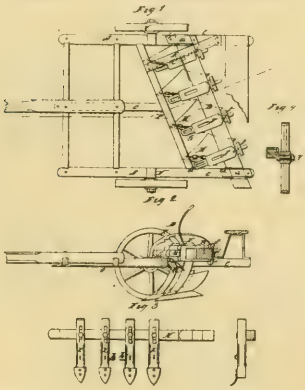
Witnesses:

Inventor:
Nelson B. Norton
by
Alexander & Wilcox
Attorneys.

J. Campbell.

Gang Plow.

No. 83,036. Patented Oct. 13, 1868.



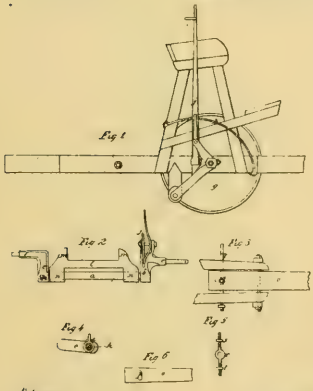
Witnesses:

Inventor:
James Campbell
by his attorney

H. R. Hite.

Gang Plow.

No. 83,283. Patented Oct. 20, 1868.



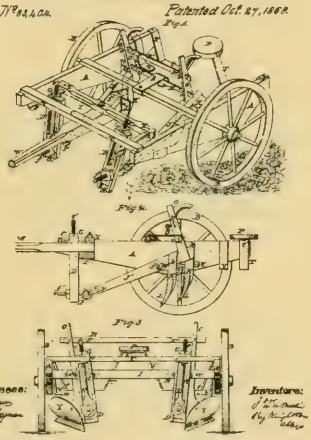
Witnesses:

Inventor:

Orr & Martin.

Wheel Plow.

No. 83,404. Patented Oct. 27, 1868.



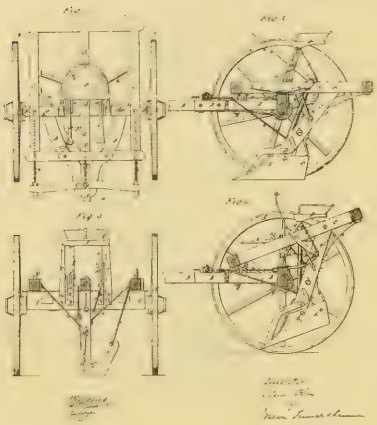
Witnesses:

Inventors:

J. Kay.

Wheel Plow.

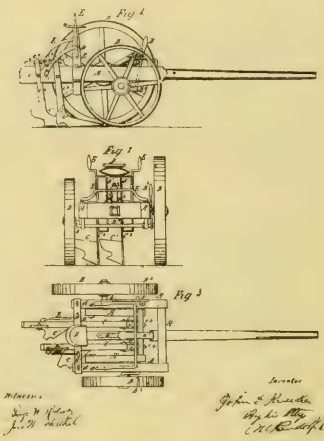
No. 81,607. Patented Oct. 27, 1868.



J. D. Kneedler.

Wheel Plow.

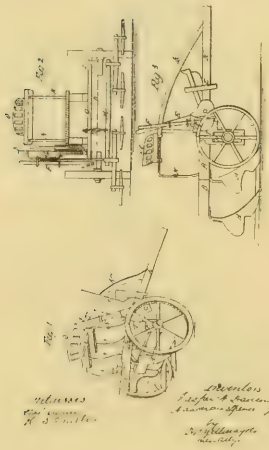
No. 83,041. Patented Nov. 3, 1868.



Davison & Spencer.

Gang Plow.

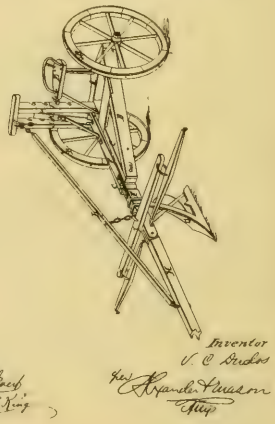
No. 83,598. Patented Nov. 3, 1868.



V. C. Davis.

Wheel Plow.

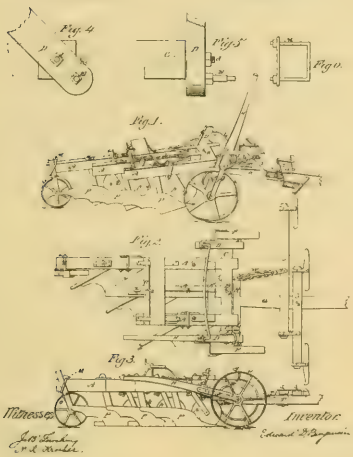
No. 84,091. Patented Nov. 17, 1868.



E. D. Benjamin.

Wheel Plow.

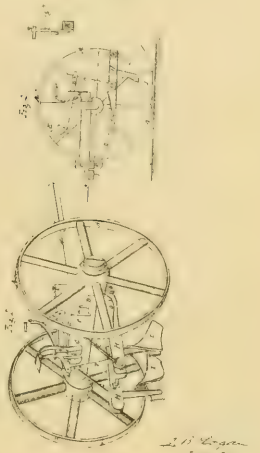
No. 84,252. Patented Nov. 24, 1868.



J. B. Logan. E. Sheets, Sheet 1

Wheel Plow.

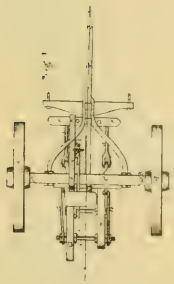
No. 84,631. Patented Dec. 1, 1868.



J. B. Logan. E. Sheets, Sheet 2

Wheel Plow.

No. 84,631. Patented Dec. 1, 1868.



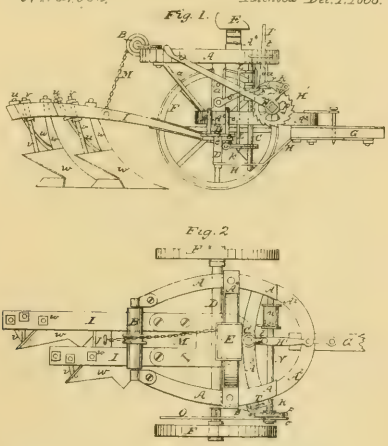
Witnesses:

J. B. Logan
Inventor

A. Smith.

Gang Plow.

No. 84,652. Patented Dec. 1, 1868.



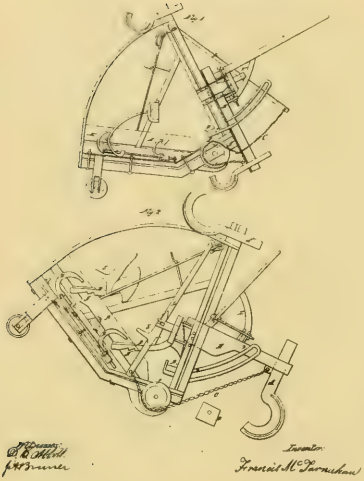
Witnessed:
E. A. Pettit
H. K. Farmer

Inventor:
A. Smith
by Munn & Co
Attorneys.

F. McTarnahan.

Wheel Plow.

No. 84,748. Patented Dec. 8, 1868.



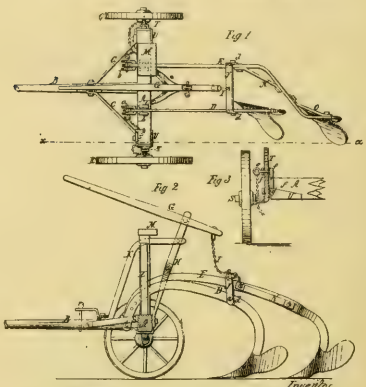
Witnesses: C. E. Wright, J. H. Brown.

Inventor: Francis McTarnahan.

J. L. Stearns.

Wheel Plow.

No. 84,970 Patented Dec. 15, 1868.



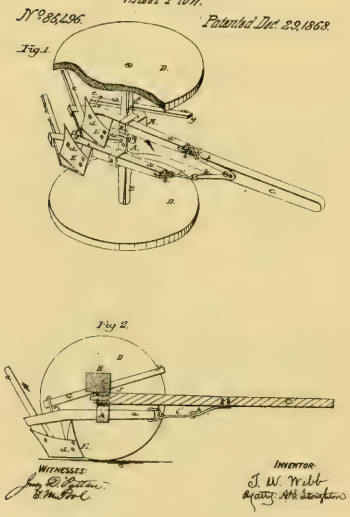
Witnesses: Alfred W. Ly an, Philip C. Dittrick.

Inventor: J. L. Stearns, for Munn & Co. Attorneys.

T. W. Webb.

Wheel Plow.

No. 85,496. Patented Dec. 29, 1868.



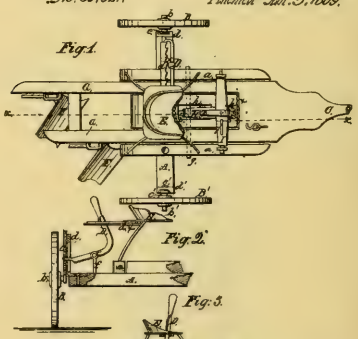
Witnesses: Jas. D. Potter, E. M. Ford.

Inventor: T. W. Webb, by Geo. H. Strachan.

Z. T. Sweet,

Gang Plow.

No. 85,621. Patented Jan. 5, 1869.



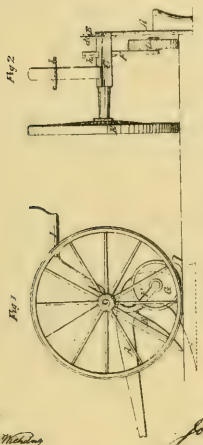
Witnesses: W. Dawson, G. E. Hutton, H. C. Morgan.

Inventor: Z. T. Sweet, per Munn & Co. Attys.

J. Root.

Sulky Plow.

No. 85,768. Patented Jan. 12, 1869.



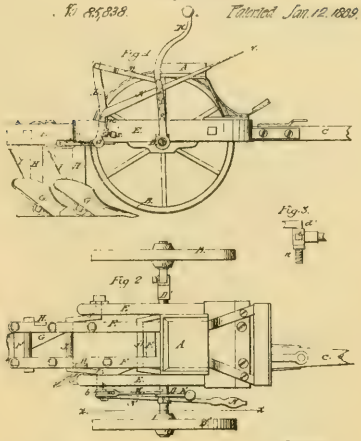
Witnesses
Edward Wetherby
Gold Smithing

Inventor
John Root
by Fowler & Wright
Attorneys

W. Mason.

Gang Plow.

No. 85,838. Patented Jan. 12, 1869.



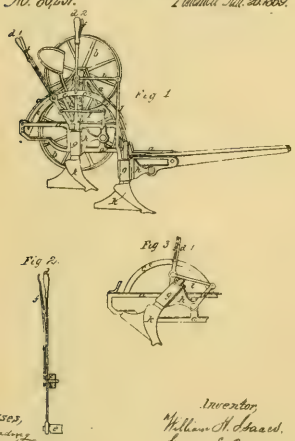
Witnesses:
C. A. Chase
H. McKenna

Inventor
Wm Mason
by Munn & Co
Attorneys

Isaacs & Bunner,

Sulky Plow.

No. 86,231. Patented Jan. 26, 1869.



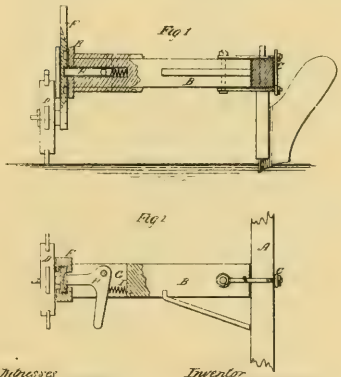
Witnesses,
W. H. Goodenough
Geo. W. Christy

Inventor,
William H. Isaacs.
George E. Bunner

A. E. Cruttenden.

Plow.

No. 86,370. Patented Feb. 2, 1869.



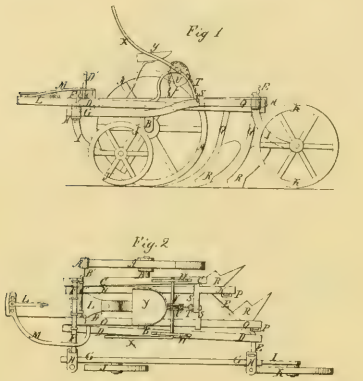
Witnesses
C. Haeling
Wm A. Meyer

Inventor
A. E. Cruttenden
by Munn & Co
Attorneys

J. Totten.

Gang Plow

No 86,472. Patented Feb 2, 1869.



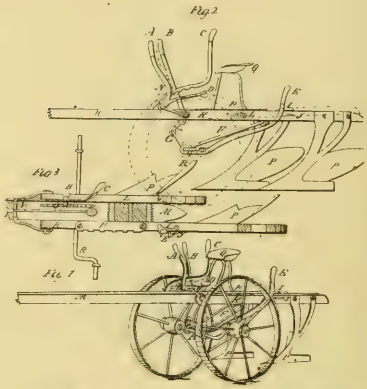
Witnesses
A. Bonnewitz
Wm. A. Morgan

Inventor
J. Totten
Munn & Co
Attorneys

J. Tinslin.

Gang Plow

No 86,608. Patented Feb 2, 1869.



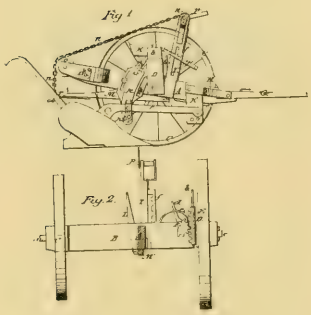
Witnesses
H. Libby
Wm. F. Fish

Inventor
J. Tinslin

O. Osborn,

Plow.

No. 87,281. Patented Feb 23, 1869.



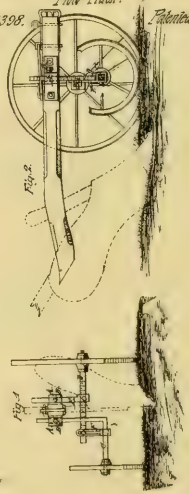
Witnesses
S. Ashwell Curtis
A. E. Jackson

Inventor,
O. Osborne
by Munn & Thomson
Attorneys

J. Cleys.

Plow Truck.

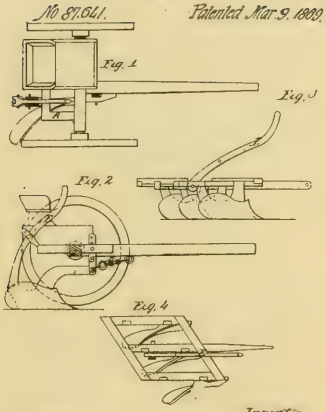
No 87,398. Patented Mar. 2, 1869.



Witnesses:
G. Rattig
Wm. A. Morgan

Inventor:
J. Cleys.
Munn & Co
Attorneys

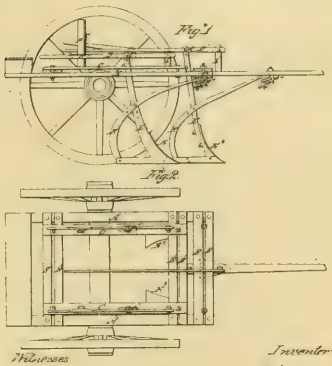
H. Culver
Plow.
No. 87,641. Patented Mar. 9, 1869.



Witnesses
James P. Gaus
N. Chipman

Inventor
Hiram Culver
Chipman Hosmer & Co
Attys

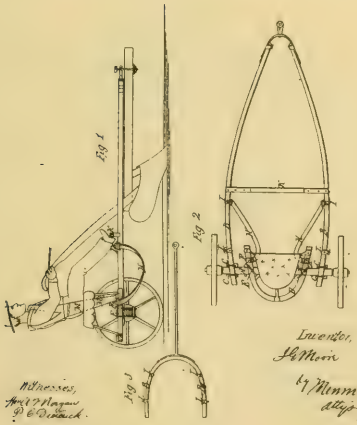
J. R. Jackson.
Plow.
No. 87,677. Patented Mar. 9, 1869.



Witnesses
Edwin James
W. B. Lusby

Inventor
John R. Jackson
per J. E. F. Attwood
Attorney

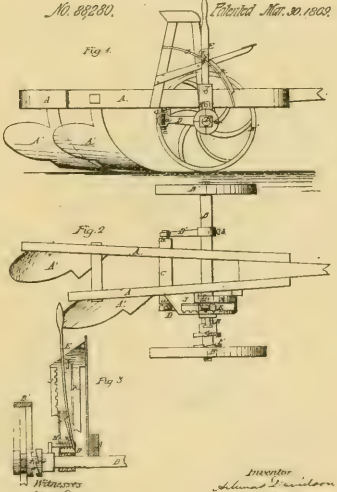
J. C. Moore.
Plow Truck.
No. 87,866. Patented Mar. 16, 1869.



Witnesses,
April 17 August
P. C. Dieck

Inventor,
J. C. Moore
by Munn & Co
Attys

A. Davison,
Wheel Plow.
No. 88,280. Patented Mar. 30, 1869.



Witnesses
Wm. Crane
H. W. Crane

Inventor
Alonzo Davidson
by J. Dennis Jr
Attorney

J. G. Robinson. Sheet 1 Sheets.

Plow.

No. 88,413. Patented Mar. 30, 1869.

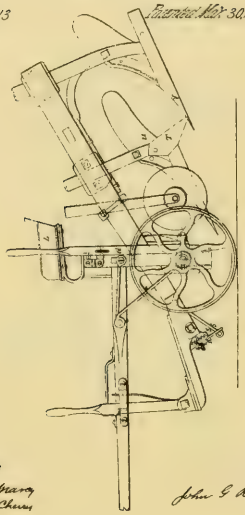


Fig. 1

Witnesses
Geo. O'Harry
Schuyler Cherry

Inventor
John G. Robinson

Sheet 2 Sheets.

Plow.

No. 88,413. Patented Mar. 30, 1869.

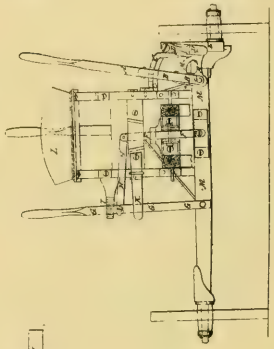


Fig. 2

Fig. 3

Witnesses
Geo. O'Harry
Schuyler Cherry

Inventor
John G. Robinson

W. L. Jeffries.

Plow Carriage.

No. 88,486. Patented Mar. 30, 1869.

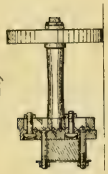


Fig. 3

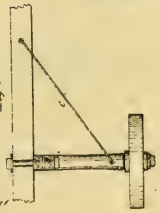


Fig. 1

Fig. 2

Witnesses
G. O. Greene
G. W. Young

Inventor
W. L. Jeffries
by Wickersham Hammond & Co.

C. Wharton.

Gang Plow.

No. 88,998. Patented Apr. 13, 1869.

Fig. 1

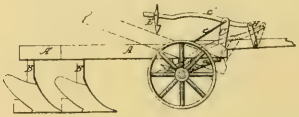
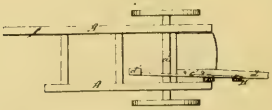


Fig. 2



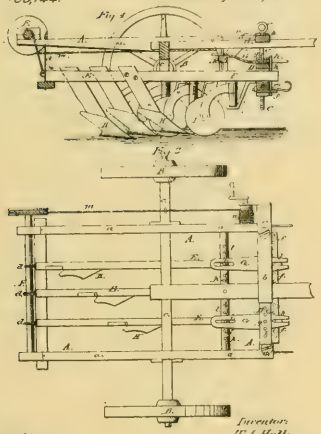
Witnesses
Chas. F. Brown
Fred. Thomas

Inventor
C. Wharton
by
A. W. Beale & Co.

T. J. Hall.

Gang Plow.

No. 89,144. Patented Apr. 20, 1869.



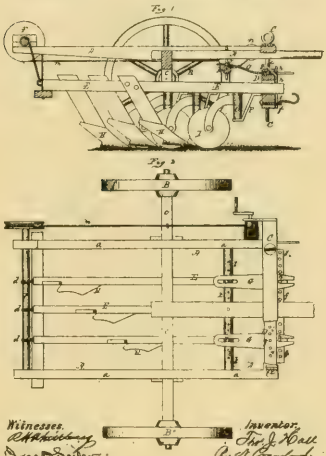
Witnesses:
H. Gallinger
E. L. Deblanch

Inventor:
T. J. Hall.
per Minnis & Co
Attorneys

T. J. Hall,

Gang Plow.

No. 89,150. Reissued Nov. 30, 1869.



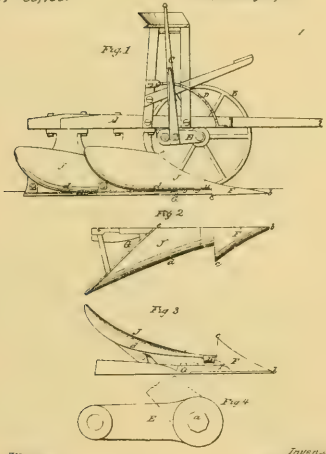
Witnesses.
R. H. Ashbury
Isaac Boller

Inventor,
Thos. J. Hall
by C. Crawford atty.

M. Murphy.

Gang Plow.

No. 89,788. Patented May 4, 1869.



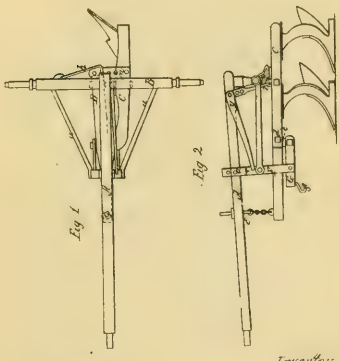
Witnesses
J. L. Berne
A. H. Wade

Inventor
Isaac Murphy
per Levey & Co
Attys

C. & J. Seibert.

Plow.

No. 89,797. Patented May 4, 1869.



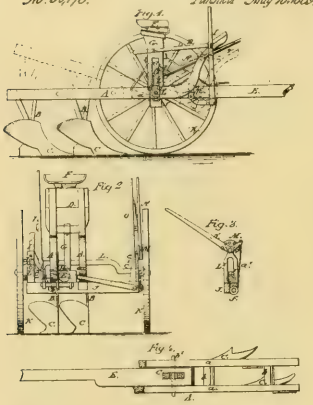
Witnesses,
James A. Greene
J. B. Ryter

Inventors,
Geo. Seibert, Jr.
John Seibert
Ehrman, Hoom & Co
attys

J. W. Lewis.

Gang Plow.

No. 90,178. Patented May 18, 1869.



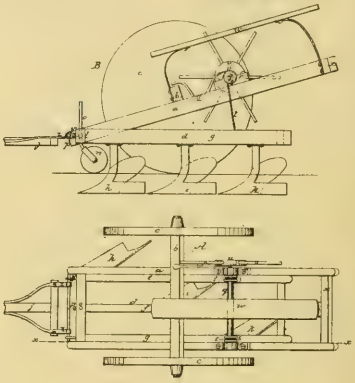
Witnesses:
H. A. Wright.
H. A. Wilgus.

Inventor:
J. W. Lewis.
Munn & Co.
Attorneys.

C. P. Carter.

Gang Plow.

No. 90,237. Patented May 18, 1869.



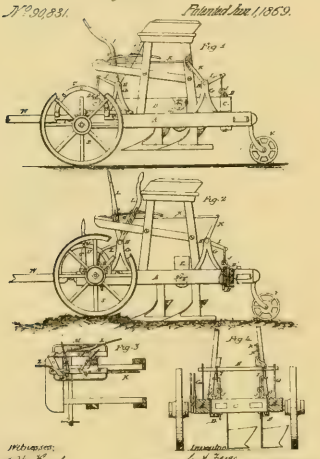
Witnesses
W. B. Cushy
Francis Gould

Inventor
George P. Carter

C. R. Fargo.

Gang Plow.

No. 90,831. Patented June 1, 1869.



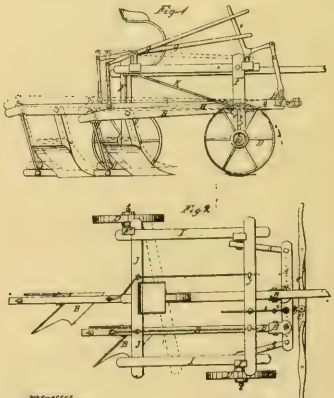
Witnesses:
G. W. Reed
J. Hornwood

Inventor
C. R. Fargo
Munn & Co.
Attorneys

J. Bryan.

Wheel Cultivator.

No. 90,921. Patented June 8, 1869.



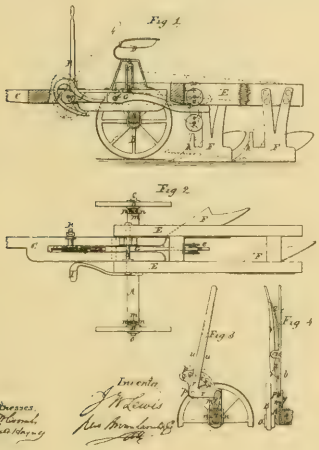
Witnesses
B. W. Windle
J. J. Ch. Clay

Inventor
John Bryan

J. W. Lewis.

Gang Plow

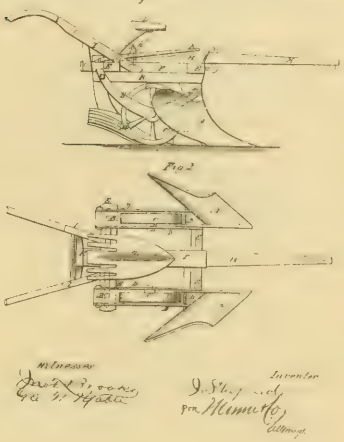
No. 91,563. Patented Jun. 22, 1869.



J. Shepard.

Wheel Plow

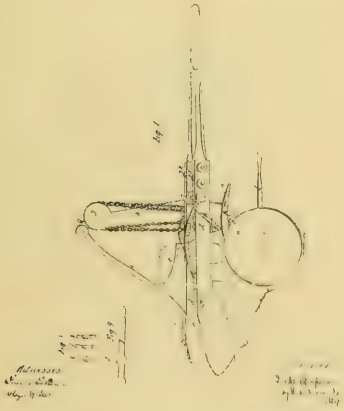
No. 91,973. Patented Jun. 29, 1869



L. Chapman

Gang Plow

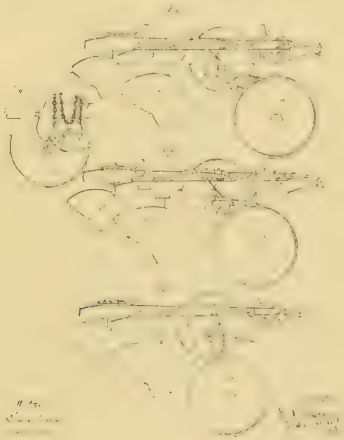
No. 92,016 Patented Jun. 29, 1869.



L. Chapman

Gang Plow

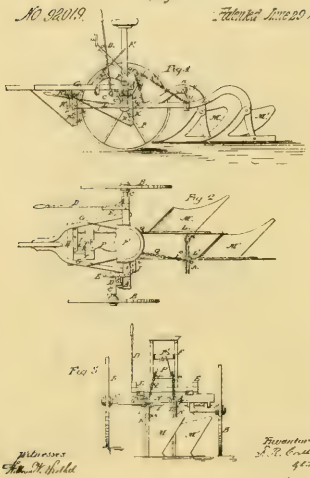
No. 92,016. Patented Jun. 29, 1869



F. H. Crothers.

Gang Plow.

No. 92019. Patented June 29 1869.



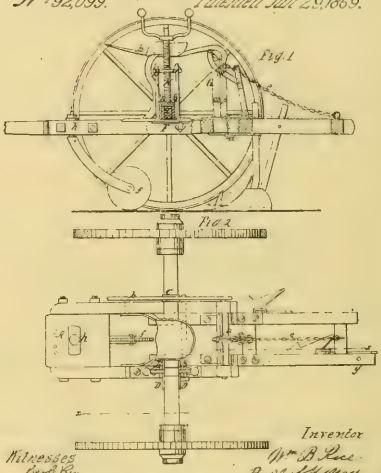
Witnesses
Robt. Burns

Inventor
F. H. Crothers
By Chas. Mitchell

W. B. Rice.

Gang Plow.

No. 92,099. Patented Jun. 29, 1869.

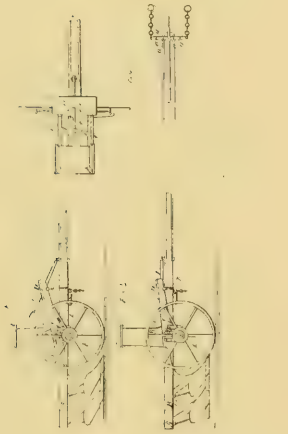


Witnesses
Geo. B. Ku
A. A. Lee

Inventor
Wm. B. Rice
By A. Hollingsworth
Attorney

Wheel Plow.

No. 92,956. Patented July 27 1869.



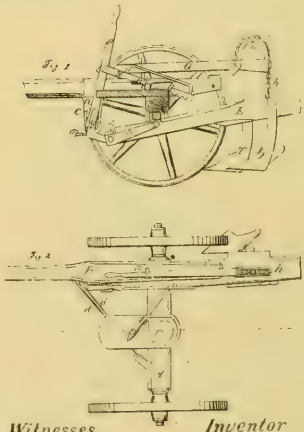
Witnesses
H. W. Bennett
C. M. Dale

Inventor
L. H. Collins
By his atty. C. M. M. Smith

C. F. Gay.

Wheel Plow.

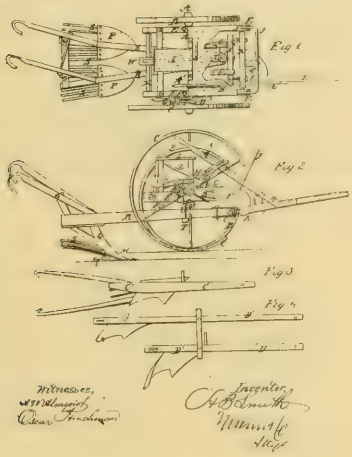
No. 93077. Patented July 27 1869.



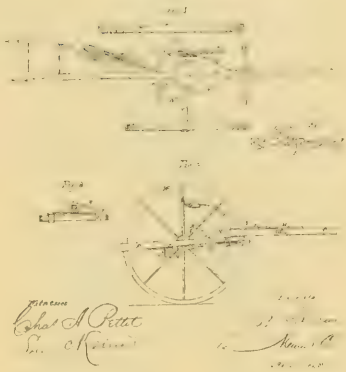
Witnesses
E. W. Anderson
James A. Lewis

Inventor
C. F. Gay
Chapman & Hoar
Attys.

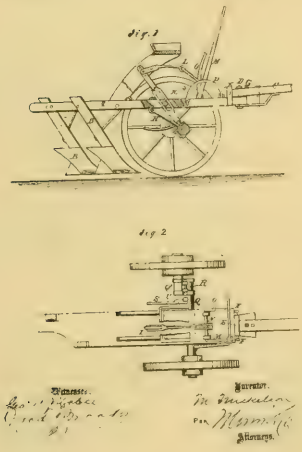
H. B. Smith.
Wheel Plow.
No. 93,154. Patented July 27, 1869.



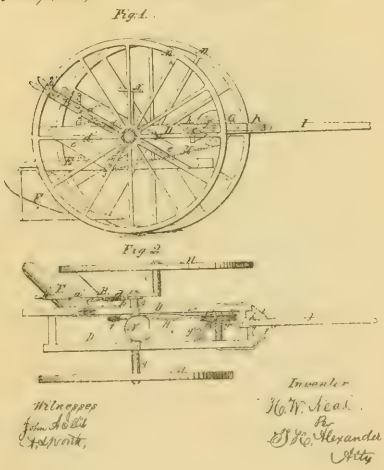
E. Stutzer,
Wheel Plow.
No. 93,830. Patented Aug. 24, 1869.



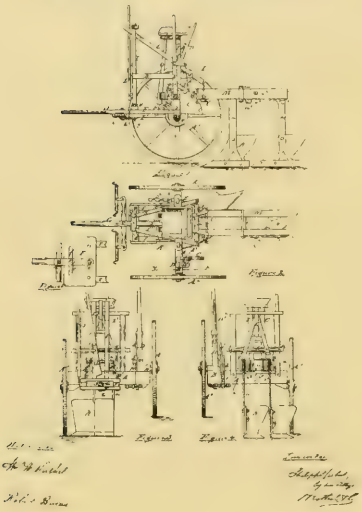
M. Mickelson,
Wheel Plow.
No. 93,604. Patented Aug. 10, 1869.



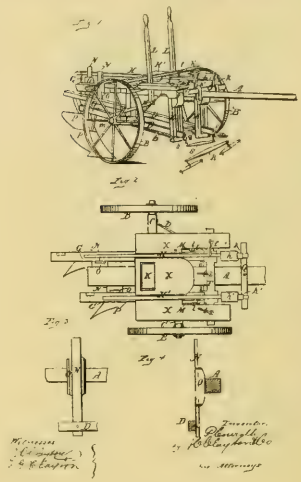
H. W. Neal.
Wheel Plow.
No. 93,549. Patented Aug. 10, 1869.



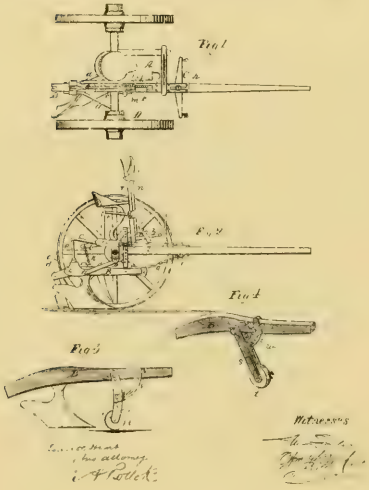
P. Herbert,
Wheel Plow.
No. 93018. Patented Aug. 10, 1869.



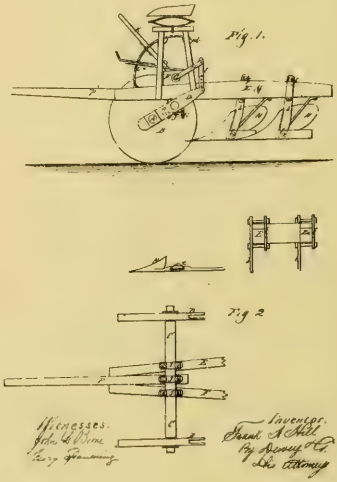
P. Conrath.
Wheel Plow.
No. 93060. Patented Aug. 17, 1869.



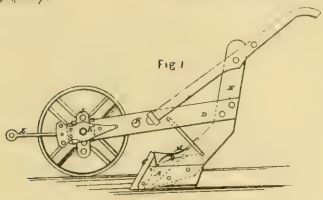
L. Hunt,
Wheel Plow.
No. 93996. Patented ... 1869.

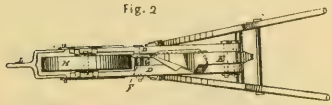


T. A. Hill,
Gang Plow
No. 94491. Patented Sept. 7, 1869.



A. C. Judson.
Plow.
No. 94,609. Patented Sept. 7. 1869.

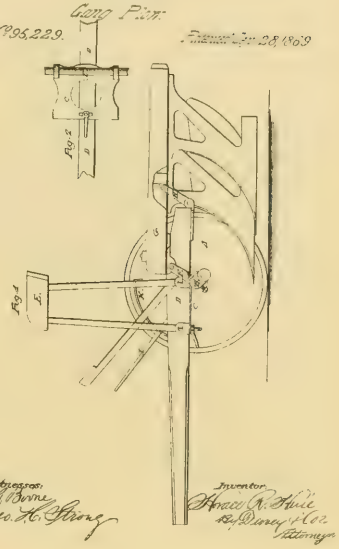




Witnesses:
Geo. H. Weber
Jno. R. Hardy
C. D.

Inventor:
A. C. Judson
Per Munn & Co
Attorneys

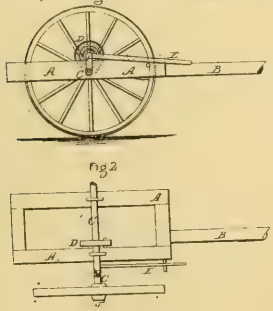
H. R. Hill.
Gang Plow.
No. 95,229. Patented Sept. 28. 1869.



Witnesses:
J. G. Borne
Geo. H. Strong

Inventor:
Horace R. Hill
By Dewey & Co.
Attorneys

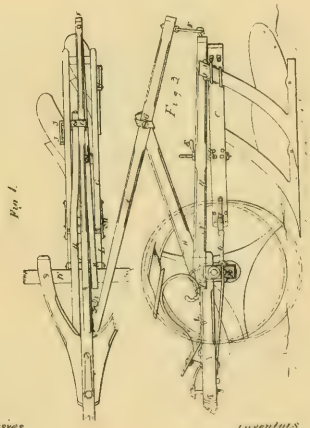
H. N. Dalton,
Gang Plow Spring.
No. 95,637. Patented Oct. 5. 1869.



Witnesses:
Geo. H. Weber

Inventor:
H. N. Dalton
Munn & Co
Attorneys

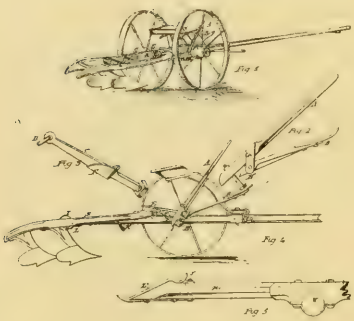
Thompson & Kennedy,
Wheel Plow.
No. 95,539. Patented Oct 5. 1869.



Witnesses:
H. H. Boyd
J. P. Jones

Inventors:
G. M. Thompson
William Kennedy

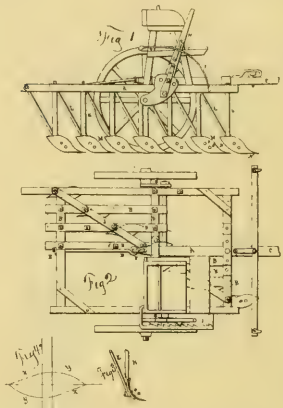
W. J. Funk,
Gang Plow.
No. 95997. Patented Oct. 19, 1869.



Witnesses:
Henry Wendlin
J. J. Hinkle

Inventor:
William J. Funk

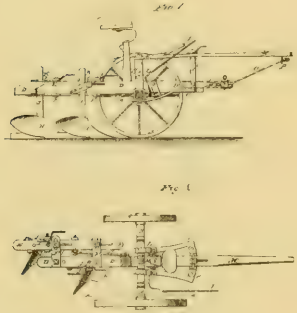
H. P. McCleave,
Wheel Plow.
No. 96334. Patented Nov. 2, 1869.



Witnesses:
Chas. J. Smith
Alfred Fricke

Inventor:
H. P. McCleave
By his Atty. C. Mumbrind.

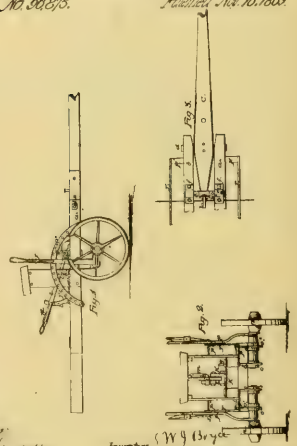
[illegible]
Gang Plow.
No. 96513. Patented Nov. 9, 1869.



Witnesses:
[illegible]
Albert F. Roberts

Inventor:
[illegible]
per [illegible]
Attorneys.

Pryce & Haines
Gang Plow.
No. 96875. Patented Nov. 16, 1869.



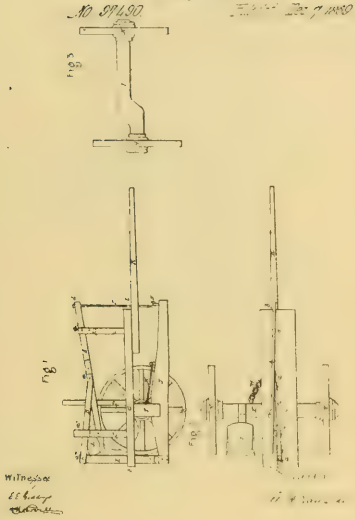
Witnesses:
John E. [illegible]
E. W. Preston

Inventors:
W. J. Bryce
G. W. Haines
by [illegible] Atty.
C. Mumbrind.

C. A. Edmonds.

Sulky Plow.

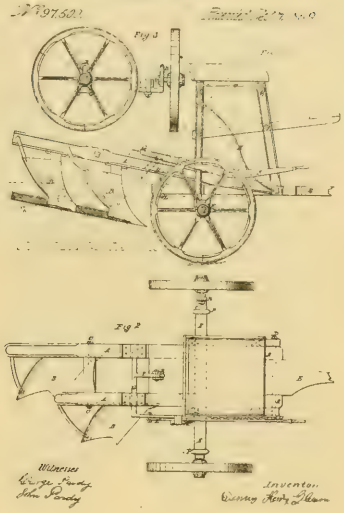
No. 94490. Patented Dec. 7, 1869



D. H. Gibson.

Gang Plow.

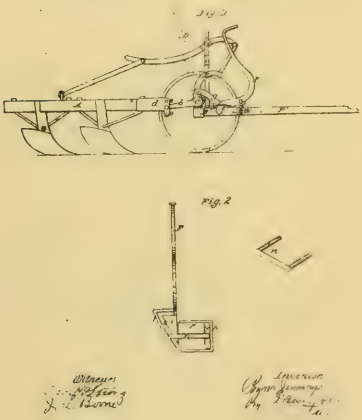
No. 97502. Patented Dec. 7, 1869



B. Jennings.

Gang Plow.

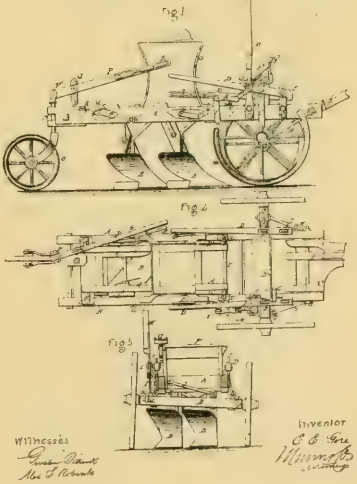
No. 98616 Patented Dec. 7, 1869

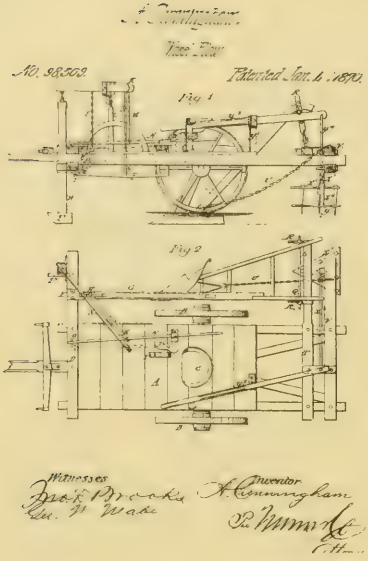


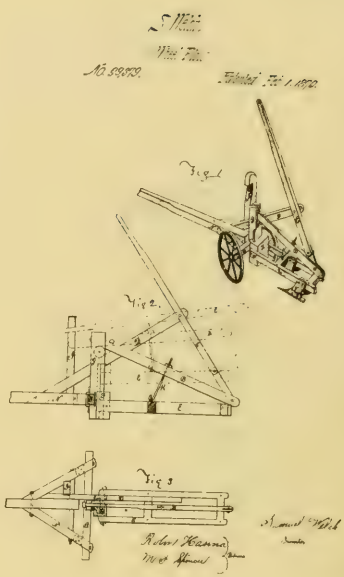
I. E. Gore.

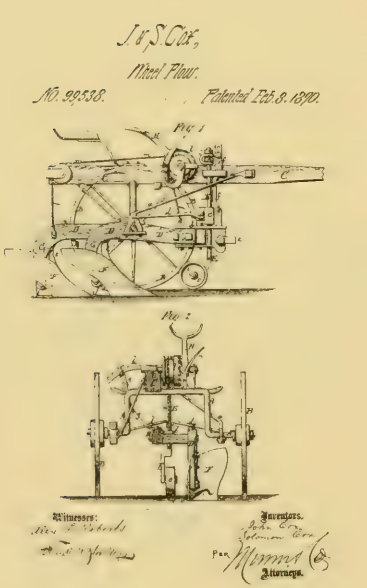
Wheel Plow.

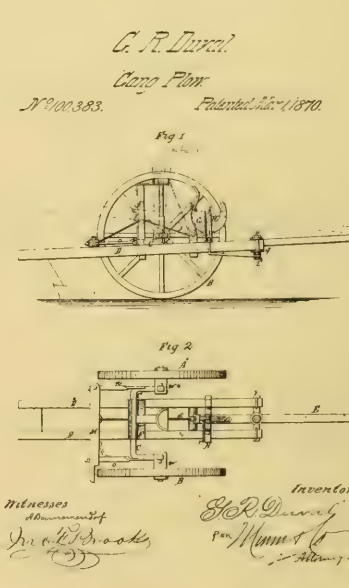
No. 98370. Patented Dec. 28, 1869




No. 98,503
Patented Jan. 4, 1870.
Fig 1
Fig 2
Witnesses
Inventor
Munn & Co.


No. 99,079.
Fig 1
Fig 2
Fig 3
Robert Hanna
Samuel Weil

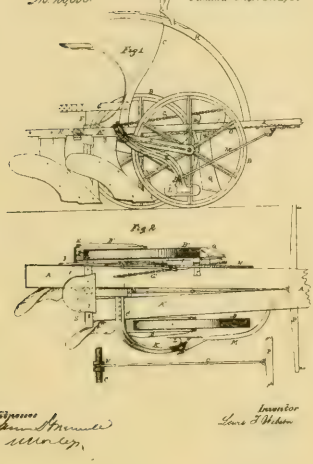

Wood Plow.
No. 99,538.
Patented Feb. 8. 1870.
Fig 1
Witnesses:
Inventors.
Munn & Co.
Attorneys.


C. R. Durell.
Cane Plow.
No. 100,383.
Patented Mar. 1 1870.
Fig 1
Fig 2
Witnesses
Inventor
Munn & Co.

L. T. Wilder,

Wheel Plow.

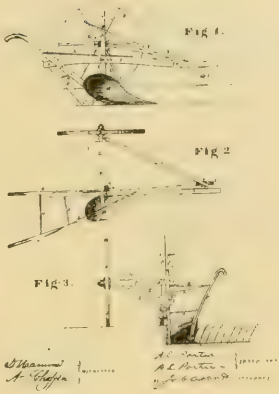
No. 100,936. Patented Mar. 8, 1870.



A. E. & A. L. Foster.

Wheel Plow.

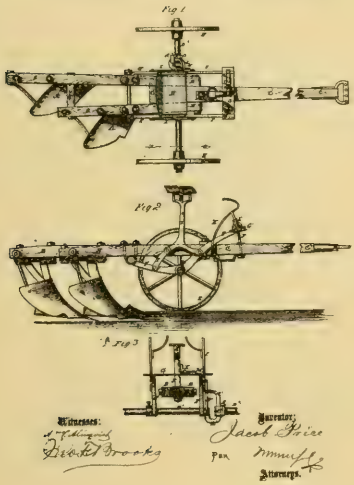
No. 100,800. Patented Mar. 15, 1870.



J. Price,

Wheel Plow.

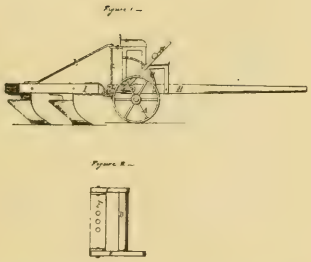
No. 101,038. Patented Mar. 22, 1870.



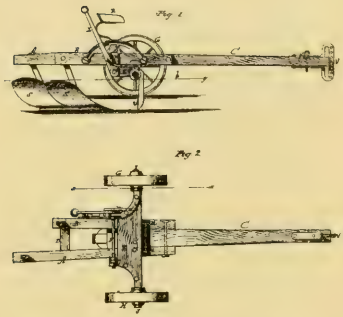
J. H. Otis,

Wheel Plow.

No. 101,635. Patented Apr. 5, 1870.



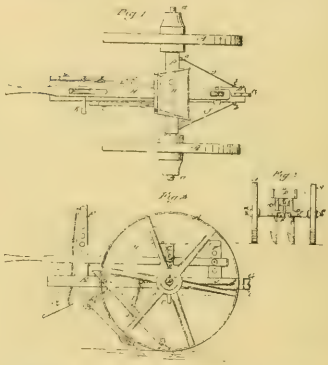
J. W. Shoral,
Wheel Plow.
No. 101,539. Patented Apr. 5, 1870.



Witnesses:
Gustavus Dustandy
Edgar Cole

Inventor:
J. W. Shoral
per Munn & Co
Attorneys.

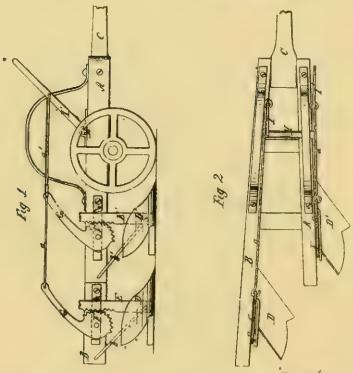
J. C. Boyd.
Wheel Plow
No. 101,574 Patented Apr. 5, 1870.



Witnesses.
C. H. Hoffman.
C. Bailey, C. C. Coates

Inventor:
Joseph C. Boyd
by Geo. Harding, Jr.
his Attorney.

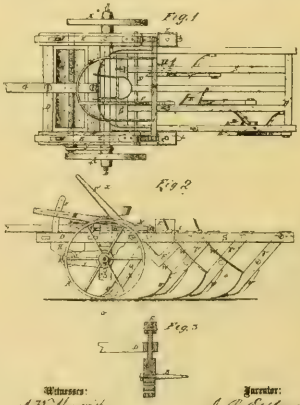
P. H. Flansburgh.
Gang Plow
No. 102,801. Patented May 10, 1870.



Witnesses;
Geo. H. Strong
J. H. Borne

Inventor,
P. H. Flansburgh
By his Attys
Munn & Co.

J. P. Eddleman, 2 Sheets, Sheet 1
Wheel Plow.
No. 103,653. Patented June 7, 1870.



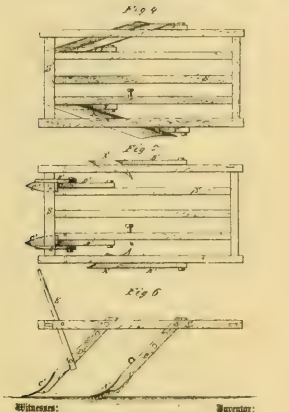
Witnesses:
A. W. Shepard,
Edgar Cole

Inventor:
J. P. Eddleman
per Munn & Co.
Attorneys.

J. P. Eddleman, 2 Sheets, Sheet 2.

Wheel Plow.

No. 103855. Patented June 7, 1870.



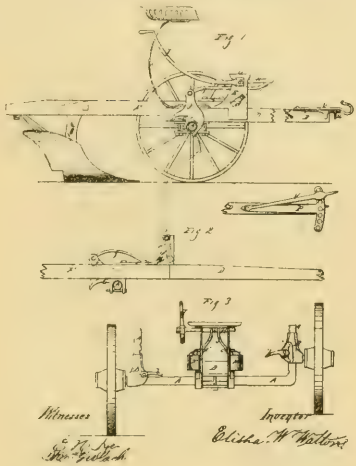
Witnesses: A. W. Mengwirth, Edgar Coates

Inventor: J. P. Eddleman, per Munn & Co. Attorneys.

E. W. Walter,

Wheel Cultivator.

No. 105523. Patented July 19, 1870.



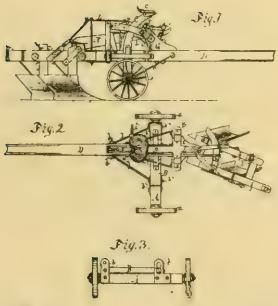
Witnesses: Geo. F. Tyler, Geo. Gillespie

Inventor: Elisha W. Walter.

D. A. Sears,

Wheel Plow.

No. 105600. Patented July 19, 1870.



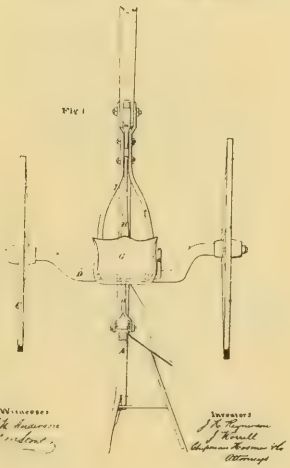
Witnesses: Geo. W. Lane, F. H. Rum

Inventor: D. A. Sears by H. G. Rundle Atty.

Rasmusson & Morrell, 3 Sheets, Sheet 1.

Wheel Plow.

No. 105819. Patented July 26, 1870.



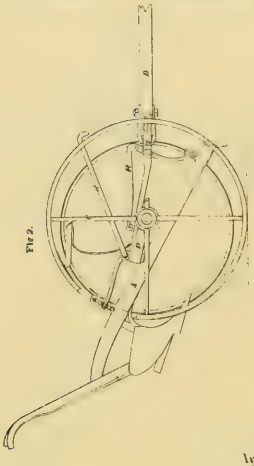
Witnesses: J. H. Rasmusson, C. Ansel Stone

Inventors: J. H. Rasmusson, J. Morrell, Chapman & Dewey Attorneys

Reynerson & Morrell, (Sheet 1 of 2)

Wheel Plow.

No. 105819. Patented July 26, 1870.



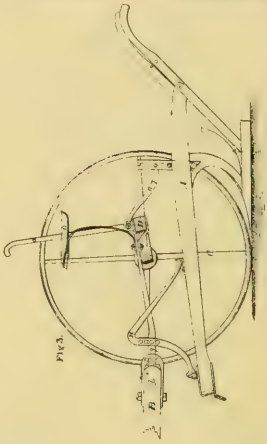
Witnesses
E. W. Anderson
Amos Ashby

Inventors
J. H. Reynerson
J. Morrell
Chapman Kimmel & Morrell
Attorneys

Reynerson & Morrell, (Sheet 2 of 2)

Wheel Plow.

No. 105819. Patented July 26, 1870.



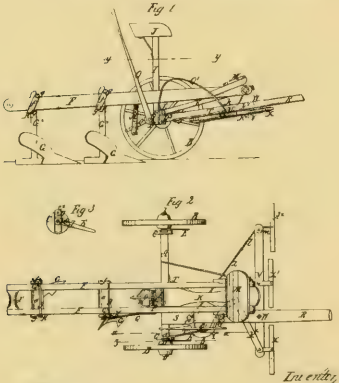
Witnesses.
E. W. Anderson
Amos Ashby

Inventors.
J. H. Reynerson
J. Morrell
Chapman Kimmel & Morrell
Attorneys

J. Alloways,

Wheel Plow

No. 105819. Patented Aug. 2, 1870.



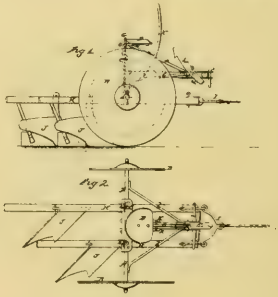
Witnesses,
H. C. Ashby
Wm. A. Morgan

Inventor,
Jno. Alloways
per Munn & Co
attorneys

J. L. Van Gunder,

Wheel Plow.

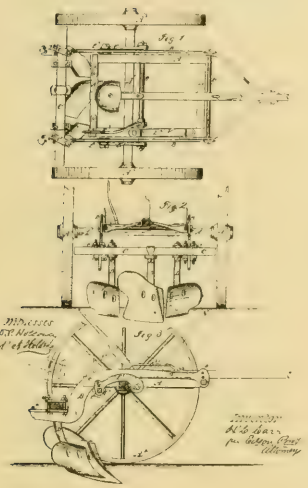
No. 106003. Patented Aug. 2, 1870.



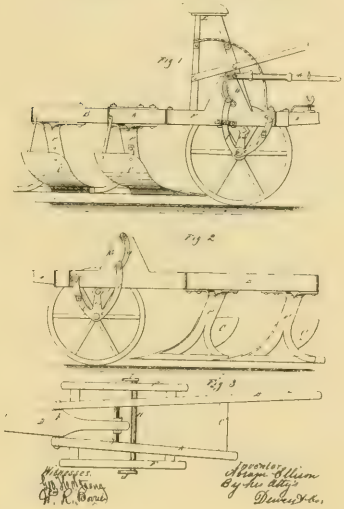
Witnesses
Jno. A. Ellis
J. P. White

Inventor
J. L. Van Gunder
per
T. H. Alexander
Atty.

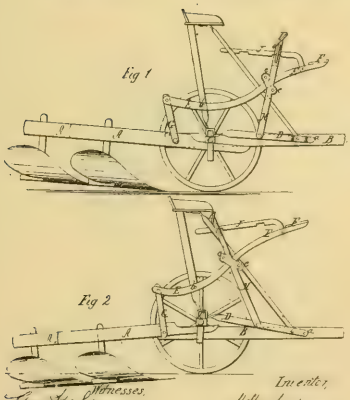
H. C. Carr,
Wheel Plow.
No. 106,548. Patented Aug. 23, 1870.



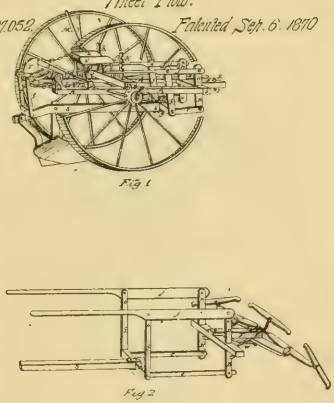
A. Ellison,
Wheel Plow.
No. 106,739. Patented Aug. 30, 1870.



J. H. Andrews,
Wheel Plow.
No. 106,888. Patented Sept. 6, 1870.



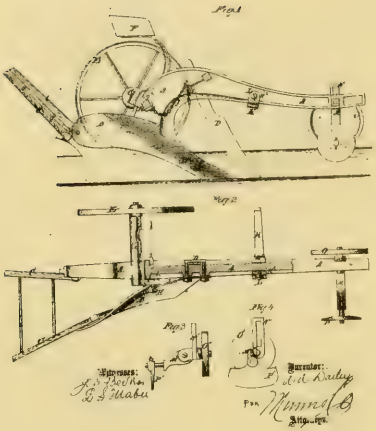
B. R. Hubbard,
Wheel Plow.
No. 107,052. Patented Sept. 6, 1870.



A. A. Dailey,

Plow.

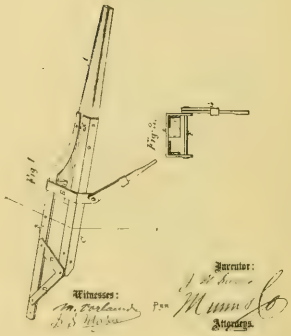
No. 109,828. Patented Sept. 13, 1870.



J. W. Sivera,

Plow Beam.

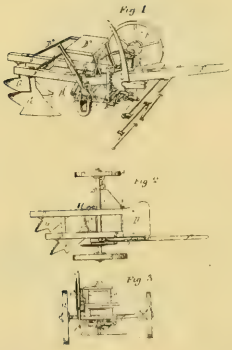
No. 109,560. Patented Nov. 29, 1870.



[illegible]

Plow.

No. 109,829 [illegible]



Witnesses

H. H. Bontelay

Alexander Archer

Inventor

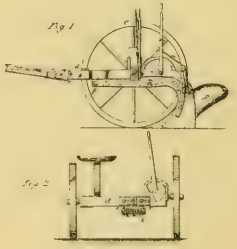
by his Attorney

A. M. Priest

H. W. Mason.

Wheel Plow.

No. 107,838. Patented Oct. 4, 1870.



Witnesses

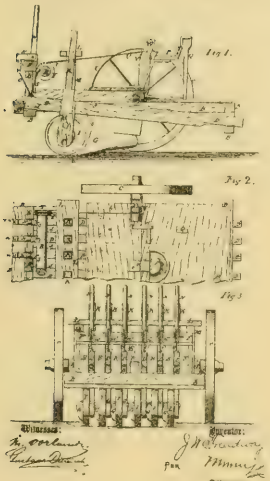
Chas. A. Betts

Geo. D. Dillard

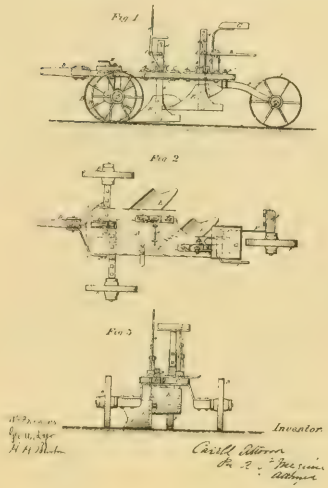
Henry W. Mason Inventor

by his Attorneys

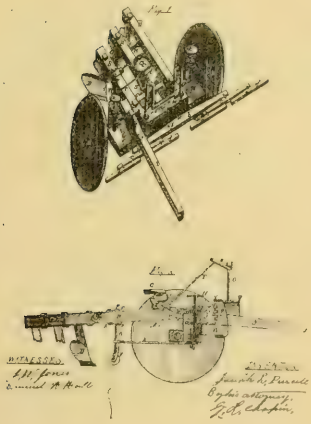
W. Fowler,
Wheel Flow.
No. 108311. Patented Oct. 11. 1870.



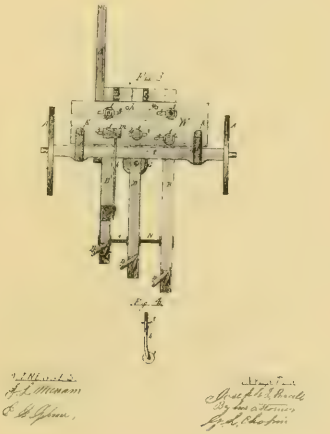
C. Atwood,
Wheel Flow.
No. 108311. Patented Oct. 18. 1870.



J. J. Purcell, 2 Sheets-Sheet 1
Wheel Flow.
No. 108516. Patented Oct. 18. 1870



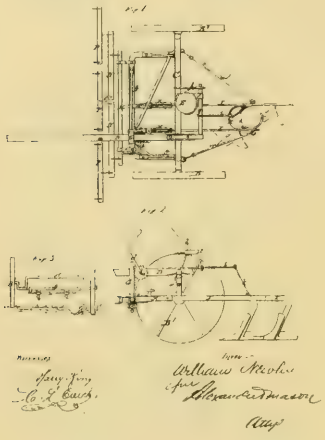
J. J. Purcell. 2 Sheets-Sheet 2
Wheel Flow.
No. 108516. Patented Oct. 18. 1870.



W. Newlin,

Wheel Plow.

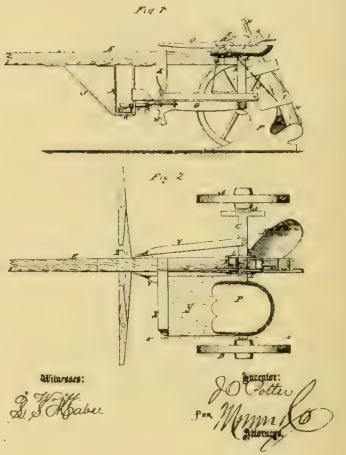
No. 108,124. Patented Oct. 25. 1870.



J. O. Potter,

Wheel Plow.

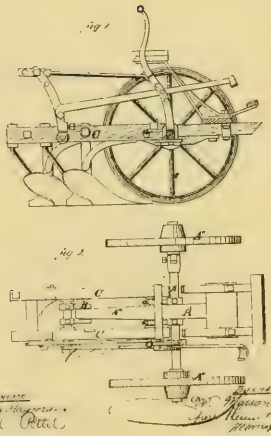
No. 109,068. Patented Nov. 8. 1870.



W. Mason,

Gang Plow.

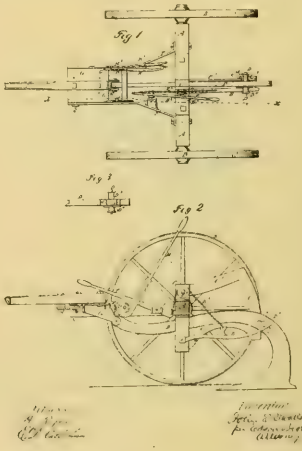
No. 109,136. Patented Nov. 8. 1870.



J. E. Swallow,

Wheel Plow.

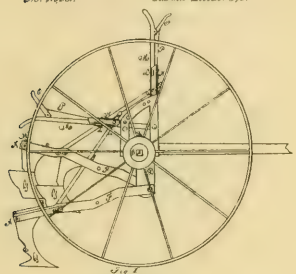
No. 109,684. Patented Nov. 29. 1870.

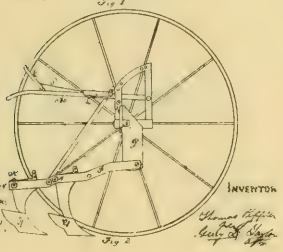


T. Fisher, Sheet 1

Cing Plow.

No. 110381. Patented Dec. 20. 1870.





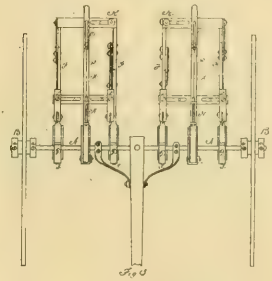
Witnesses, John C. Reaves, R. L. Clarson

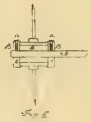
Inventor, Thomas Fisher, by his Atty. Chas. H. Taylor

T. Fisher, Sheet 2

Cing Plow.

No. 110381. Patented Dec. 20. 1870.





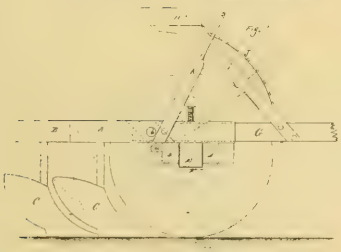
Witnesses, John C. Reaves, R. L. Clarson

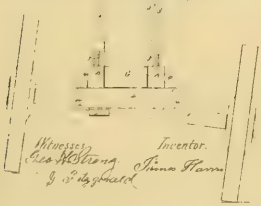
Inventor, Thomas Fisher, by his Atty. Chas. H. Taylor

J. Harris,

Cing Plow.

No. 110356. Patented Dec. 20. 1870.





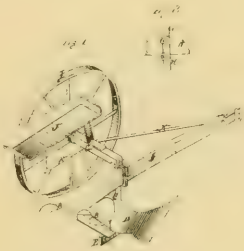
Witnesses, Geo. W. Strong, J. H. Hazlehurst

Inventor, Jonas Harris

J. H. Shyldum,

Wheel Plow.

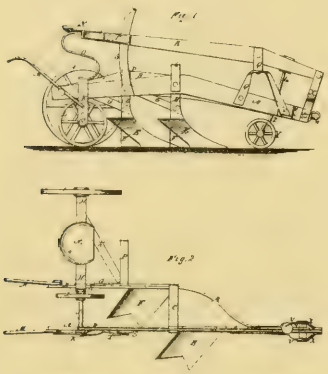
No. 110601. Patented Dec. 20. 1870.



Witnesses, A. W. Gleason, Chas. L. Burrs

Inventor, John H. Shyldum, by his Attorney Alexander Mason, Atty.

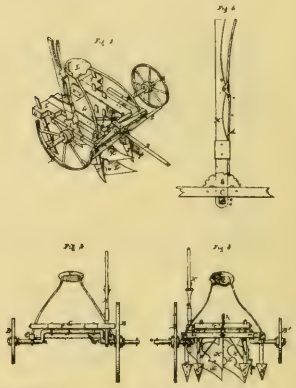
J. R. McCormick,
Sulky Plow.
No. 111,286. Patented Jan. 24, 1871.



Witnesses:
R. S. Mabe
Alex. H. Robertson

Inventor:
J. R. McCormick
per Wm. C. Dodge
Attorneys.

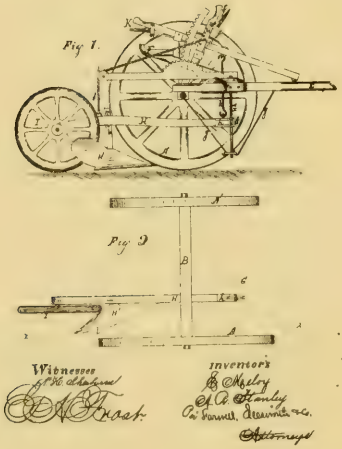
J. A. Medaris
Wheel Plow.
No. 111,228. Patented Jan. 24, 1871.



Witnesses:
A. L. Evans
John M. Hughes

Inventor:
James A. Medaris
per Saml. T. Williams
Atty.

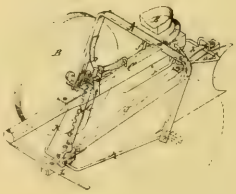
Molloy & Stanley,
Wheel Plow.
No. 111,366. Patented Jan. 31, 1871.



Witnesses
Geo. W. Hasland
H. T. Frost

Inventors
B. Molloy
A. A. Stanley
per Connell, Albright & Co.
Attorneys

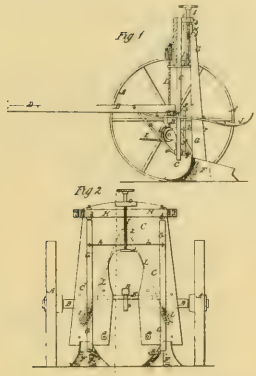
A. H. Allison,
Wheel Plow.
No. 111,771 Patented Feb. 14, 1871.



Witnesses:
Jas. A. Ellis
Geo. E. White

Inventor
A. H. Allison
per
W. Alexander
Atty.

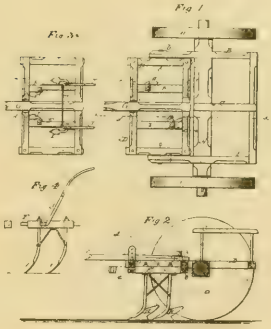
J. Sumner
Plow
No. 111,911. Patented Feb. 21, 1871.



Witnesse.
L. J. Mabie
R. Newell

Inventor.
J. Sumner
per Munn & Co
Atty

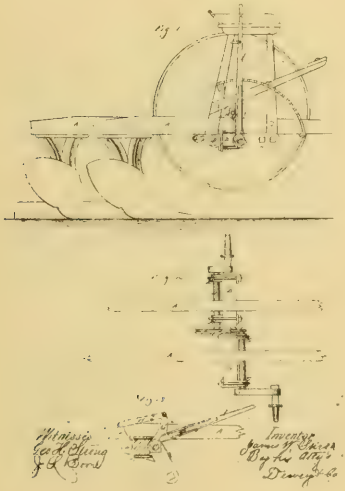
[illegible]
No. 118,078. Patented Feb. 21, 1871.



Witnesses.
Chas. S. Dodge
Thomas Taylor

Inventor
O. Hampson
by Dodge & Munn
his Attys

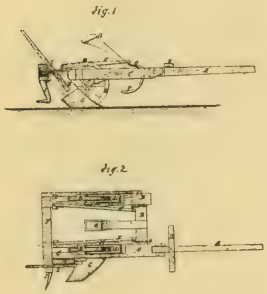
J. W. Sirsa,
Wheel Plow.
No. 119,306. Patented Nov. 7, 1871.



Witnesses
Geo. H. Strong
J. H. Ford

Inventor
James W. Sirsa
By his Attys
Dewey & Co

M. A. Elliott,
Sulky Plow.
No. 119,434. Patented Nov. 7, 1871.



Witnesses.
A. Sommerindyk
L. J. Mabie

Inventor.
M. A. Elliott
per Munn & Co
Attorneys.

J. Murry,
Wheel Plow.
No. 113,081. Patented Mar. 28, 1871.

Fig. 1

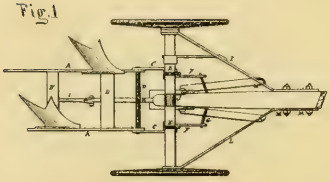
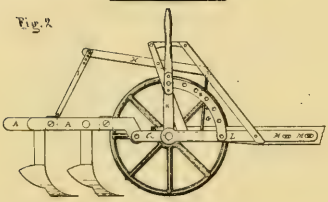


Fig. 2



Witnesses
David A. Smith
Chas. H. Phillbrick

Inventor
John Murry
by his Attorneys

Morrell & Nyverson,
Wheel Plow.
No. 113,226. Patented Mar. 28, 1871.

Fig. 1.

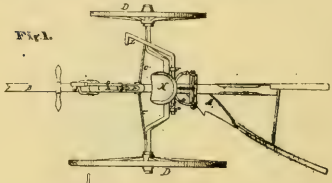
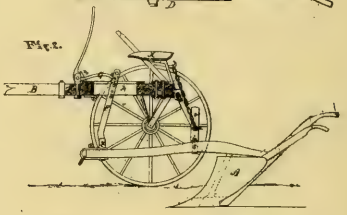


Fig. 2.



Witnesses
Chas. Hooper
Wm. Adam

Inventor
J. Morrell
J. H. Nyverson
by Chapman & Hemenway Att'ys

Morrell & Nyverson,
Wheel Plow.
No. 113,235. Patented Mar. 28, 1871.

Fig. 1.

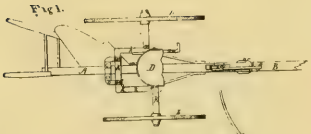


Fig. 2.

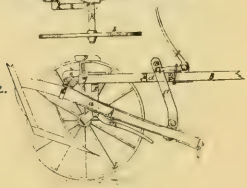


Fig. 3

Witnesses
Chas. Hooper
Wm. Adam

Inventor
J. Morrell
J. H. Nyverson
by Chapman & Hemenway Att'ys

J. L. Bond,
Wheel Plow.
No. 113,330. Patented Apr. 4, 1871.

Fig. 1

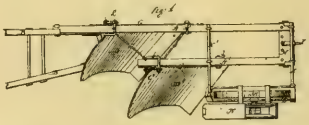
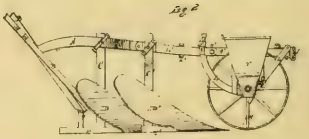


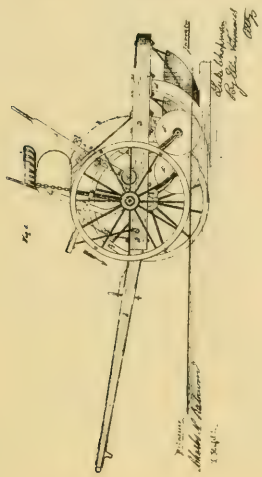
Fig. 2



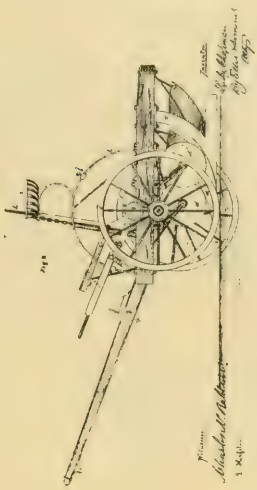
Witnesses
Ch. L. Burch
A. Upchurch

Inventor
Joel L. Bond
by Chapman & Hemenway
Att'ys

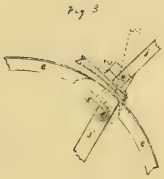
L. Chapman, 3 Sheets Sheet 1.
Gang Plow.
No. 113627. Patented Apr. 11 1871.



L. Chapman 3 Sheets Sheet 2.
Gang Plow.
No. 113627. Patented Apr. 11 1871.



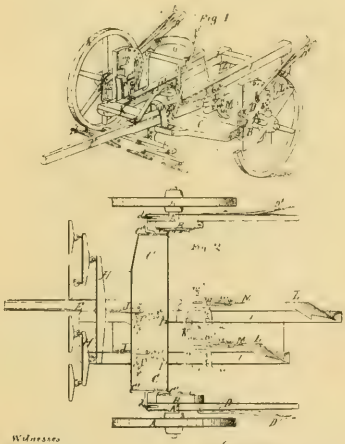
L. Chapman, 3 Sheets Sheet 3.
Gang Plow.
No. 113627. Patented Apr. 11 1871.



Witnesses
Charles N. Robinson

Inventor
Lewis Chapman
By W. E. Simonds Atty.

JOSEPH OLER.
Improvement in Gang-Plows
No 114,033 Patented April 25. 1871.



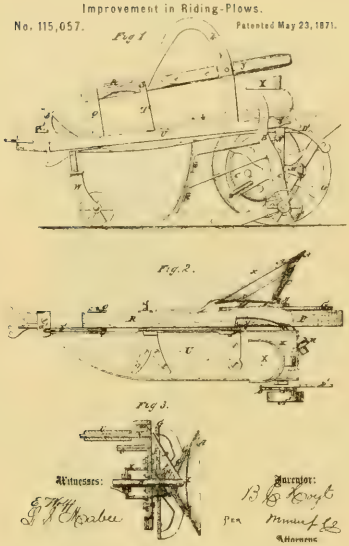
Witnesses
Ring Stickney
H. H. Doubleday

Joseph Oler
By his Attorney
A. M. Smith

B. C. HOYT.

Improvement in Riding-Plows.

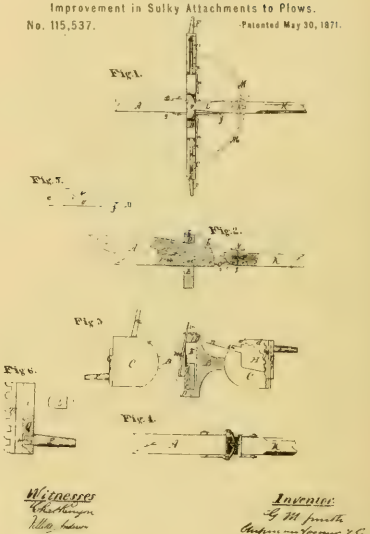
No. 115,057. Patented May 23, 1871.



GEORGE M. SMITH.

Improvement in Sulky Attachments to Plows.

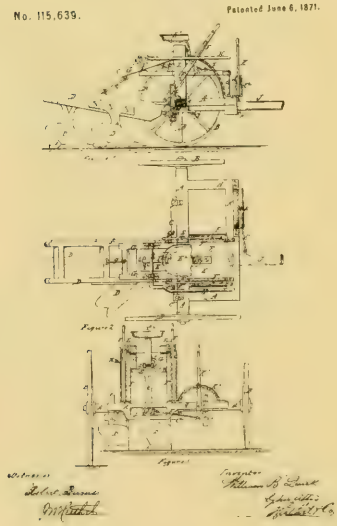
No. 115,537. Patented May 30, 1871.



W. B. QUICK.

Improvement in Gang-Plows

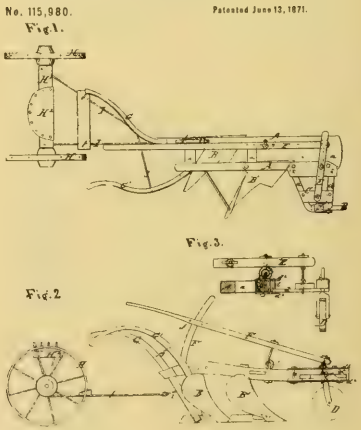
No. 115,639. Patented June 6, 1871.

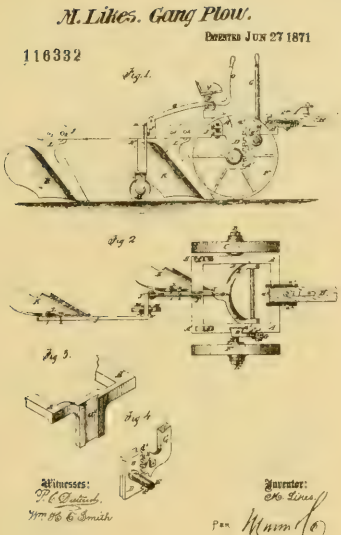


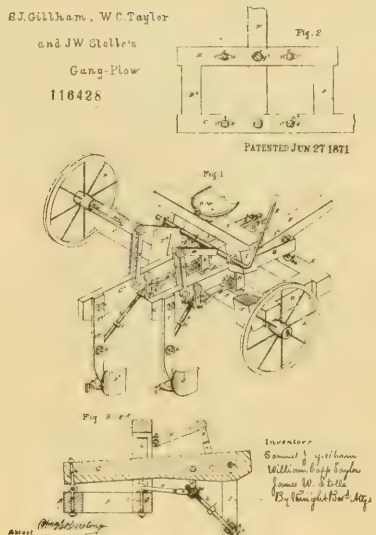
WILLIAM PARRISH.

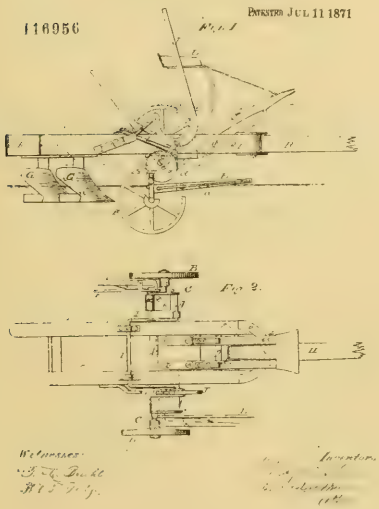
Improvement in Gang-Plows.

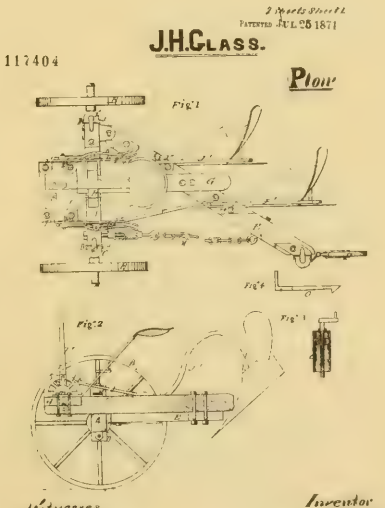
No. 115,980. Patented June 13, 1871.




M. Likes. Gang Plow.
Patented Jun 27 1871
116332
Fig. 1.
Fig. 2
Fig. 3.
Fig. 4
Witnesses:
Inventor:
Per
Attorneys.


S. J. Gillham, W. C. Taylor
and J. W. Stelle's
Gang-Plow
116428
Fig. 2
Patented Jun 27 1871
Fig. 1
Fig. 3
Inventors


W. Hay & T. B. Freeman.
Improvement in Cultivators.
Patented Jul 11 1871
116956
Fig. 1
Fig. 2.
Witnesses
Inventors


2 Sheets Sheet 1
Patented Jul 25 1871
J. H. Glass.
117404
Plow
Fig. 1
Fig. 4
Fig. 2
Fig. 3
Witnesses
Inventor

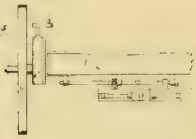
2 Sheets Sheet 2

J. H. Glass.

117404

Plow.

Fig. 5



Witnesses

Inventor.

2 Sheets Sheet 1

Lewis T. Webster.

Improved Gang Plow

117707

Patented Aug 1 1871

Fig 1 Top View

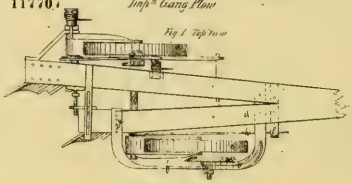
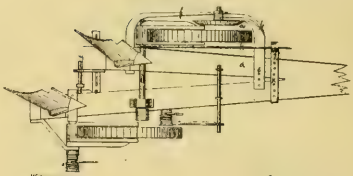


Fig 2. Bottom View



Witnesses

Inventor

Lewis T. Webster

2 Sheets Sheet 2

117707

Fig 3 Side Elevation

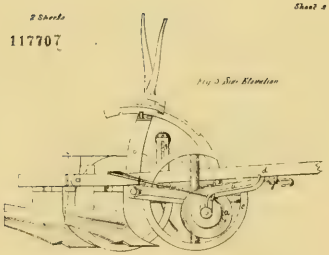
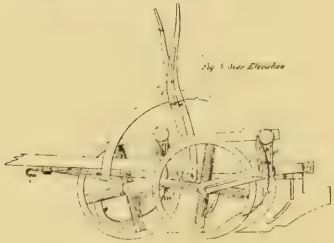


Fig 4 Rear Elevation



S. A. Northen.

Adjustable Plow.

117711

Patented Aug 1 1871

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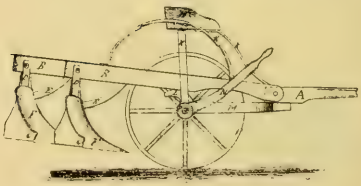
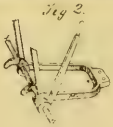


Fig 2.

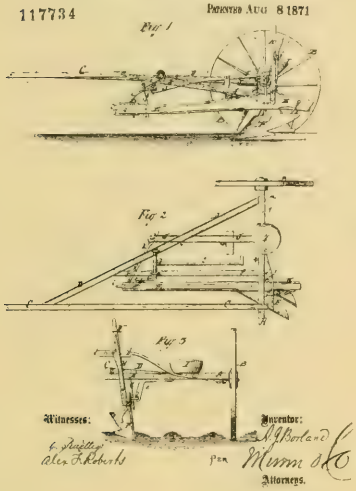


Witnesses.

Inventor

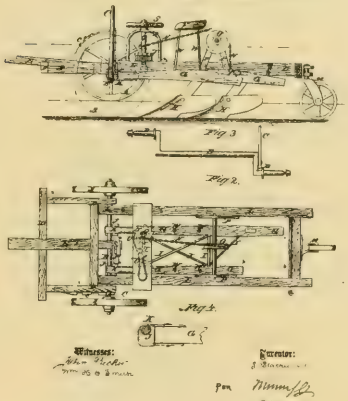
A. J. Borland, Cultivator.

117734 Patented Aug 8 1871



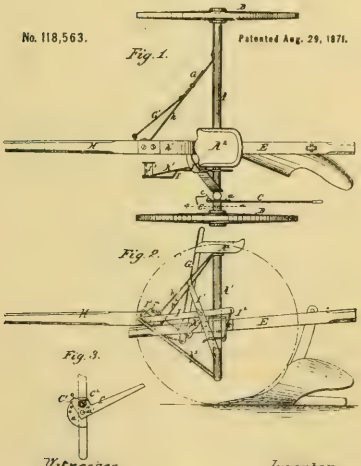
J. Blackwood, Gang Plow

117970 Patented Aug 15 1871



(84.) Jas. L. Van Gorder's Sulky Plow. Sheet 1

No. 118,563. Patented Aug. 29, 1871.



(84.) Jas. L. Van Gorder's Sulky Plow. Sheet 2

No. 118,563. Fig. 4. Patented Aug. 29, 1871.

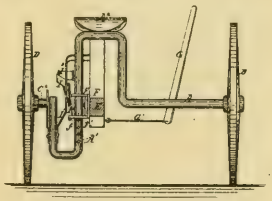
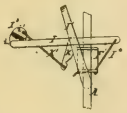
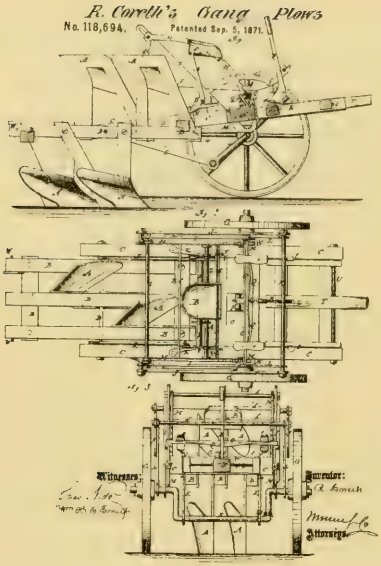


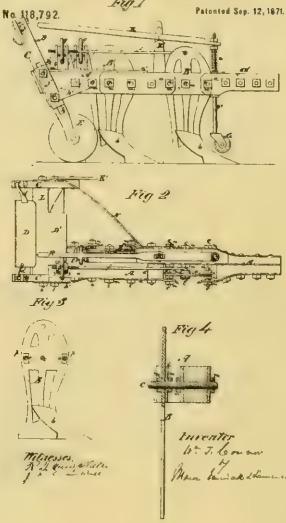
Fig. 5.

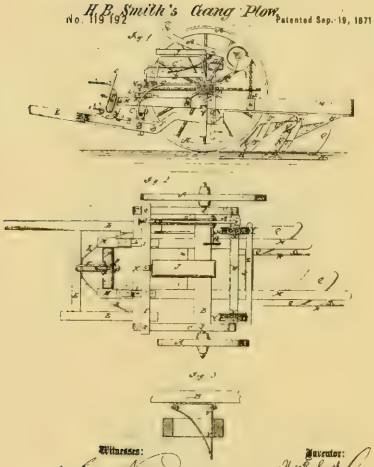


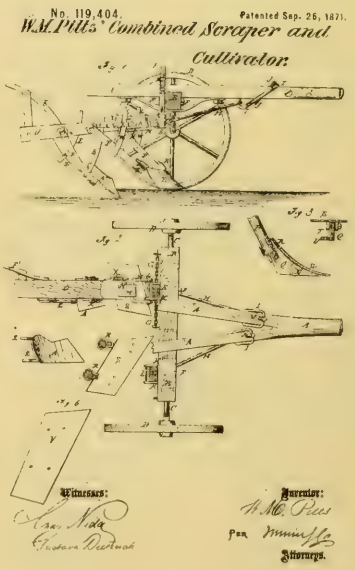
Witnesses.

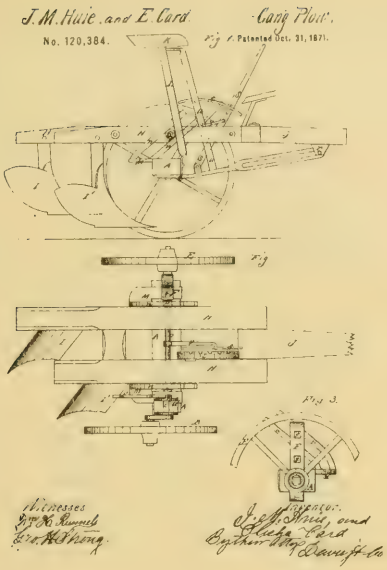
Inventor.

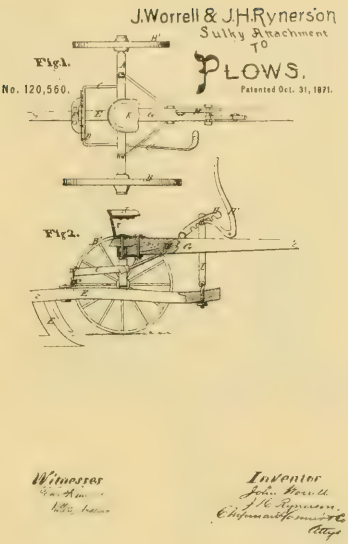

R. Corelli's Gang Plows
No. 118,694. Patented Sep. 5, 1871.
Witnesses:
Inventor:
Attorneys.


William T. Conner's Gang Plow
No. 118,792. Patented Sep. 12, 1871.
Fig 1
Fig 2
Fig 3
Fig 4
Witnesses.
Inventor.


H. B. Smith's Gang Plow
No. 119,192 Patented Sep. 19, 1871
Witnesses:
Inventor:
Per
Attorneys.


No. 119,404. Patented Sep. 26, 1871.
W. H. Pitts' Combined Scraper and Cultivator.
Witnesses:
Inventor:
Per
Attorneys.


J. M. Hale and E. Card
Gang Plow.
No. 120,384.
Patented Oct. 31, 1871.
Fig 3.
Witnesses
Inventor.


J. Worrell & J. H. Ryner'son
Sulky Attachment
To
Plows.
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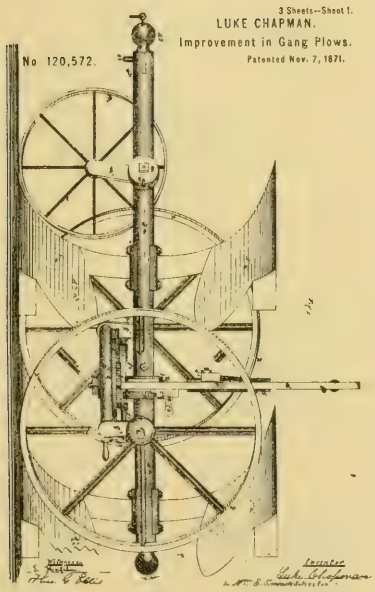
No. 120,560.
Patented Oct. 31, 1871.
Fig 2.
Witnesses
Inventor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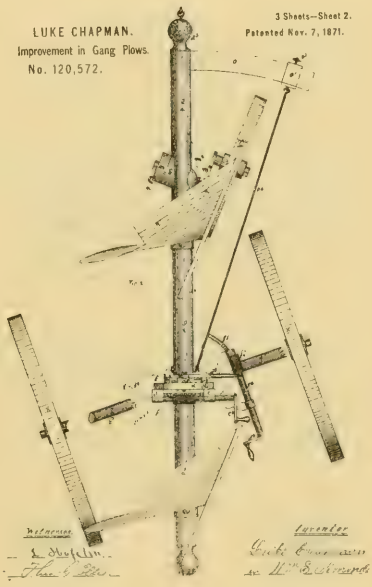
LUKE CHAPMAN.
Improvement in Gang Plows.
No 120,572.
Patented Nov. 7, 1871.
Witnesses
Inventor

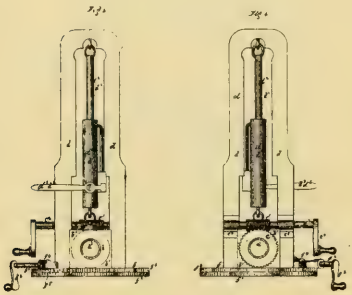

3 Sheets—Sheet 2.
Patented Nov. 7, 1871.
LUKE CHAPMAN.
Improvement in Gang Plows.
No. 120,572.
Witnesses
Inventor

3 Sheets—Sheet 3.

LUKE CHAPMAN.

Improvement in Gang Plows.

No. 120,572. Patented Nov. 7, 1871.



Witnesses

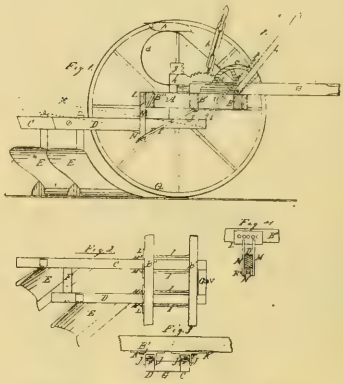
Inventor

Luke Chapman

WILLIAM G. CROSSLEY.

Improvement in Wheel Plows.

No. 122,442. Patented Jan. 2, 1872.



WITNESSES

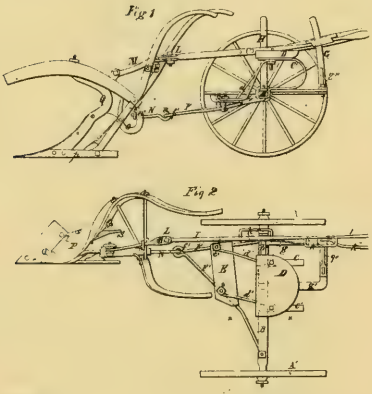
INVENTOR

W. G. Crossley

W. H. & JOHN G. PARRISH

Improvement in Wheel Plows.

No. 123,194. Patented Jan. 30, 1872.



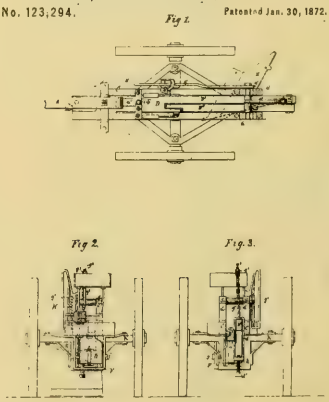
Witnesses

Inventor.

JOHN H. & SAMUEL ROBBINS.

Improvement in Wheel Plow.

No. 123,294. Patented Jan. 30, 1872.



Witnesses:

Inventor:

Attorneys.

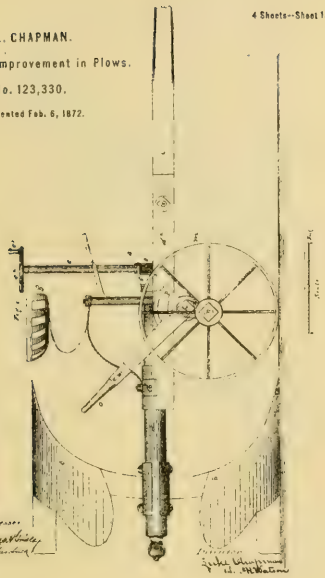
4 Sheets--Sheet 1.

L. CHAPMAN.

Improvement in Plows.

No. 123,330.

Patented Feb. 6, 1872.



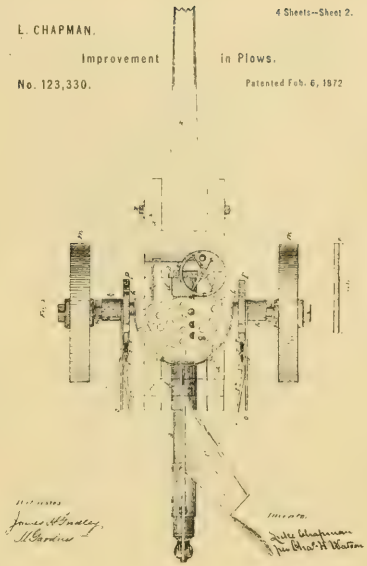
4 Sheets--Sheet 2.

L. CHAPMAN.

Improvement in Plows.

No. 123,330.

Patented Feb. 6, 1872

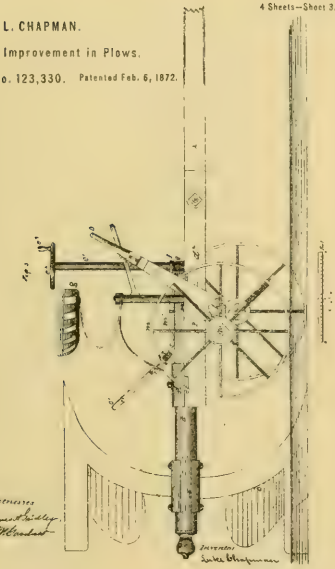


4 Sheets—Sheet 3.

L. CHAPMAN.

Improvement in Plows.

No. 123,330. Patented Feb. 6, 1872.

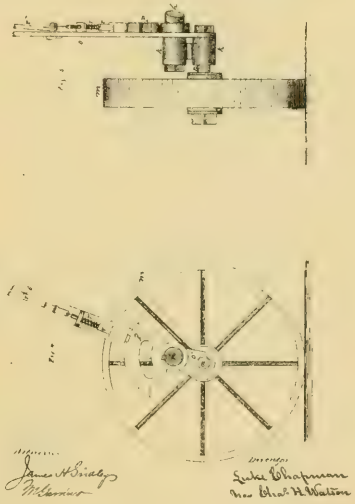


4 Sheets--Sheet 4

L. CHAPMAN.

Improvement in Plows.

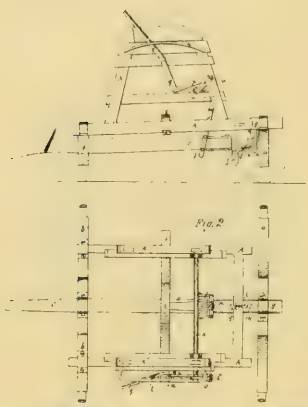
No. 123,330. Patented Feb. 6, 1872.



M. A. MELVIN.

Improvement in Plows.

No. 123,499. Patented Feb. 6, 1872.

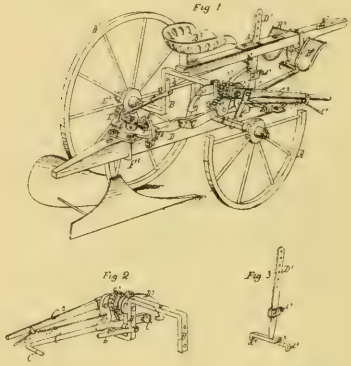


Witnesses: Inventor: M. A. Melvin. Per Attorneys.

CHARLES N. OWEN.

Improvement in Wheel Plows.

No. 123,505. Patented Feb. 6, 1872.

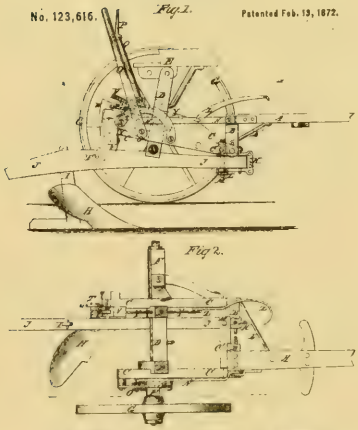


Witnesses: Inventor: Charles N. Owen by his Attorney A. U. Curtis

W. B. CUMMINS.

Sulky Plow.

No. 123,616. Patented Feb. 13, 1872.

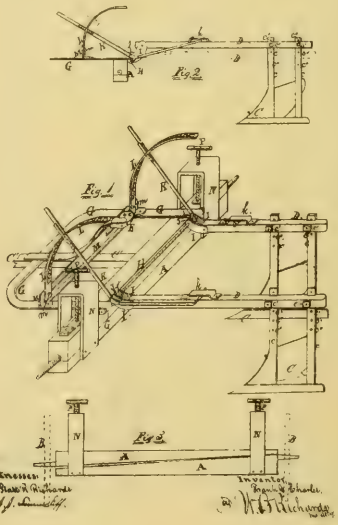


Witnesses: Inventor: Per Attorneys.

F. G. CHARLES.

Improvement in Plows.

No. 123,869. Patented Feb. 20, 1872.

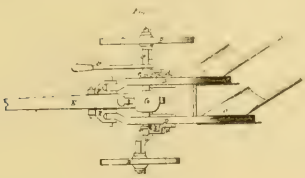


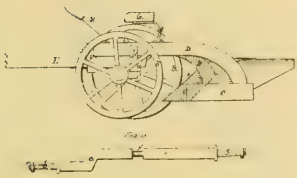
Witnesses: Inventor: Per

SAMUEL B. BOWEN & A. M. ABBOT

Improvement in Gang Plows.

No 124,480. Patented March 12, 1872





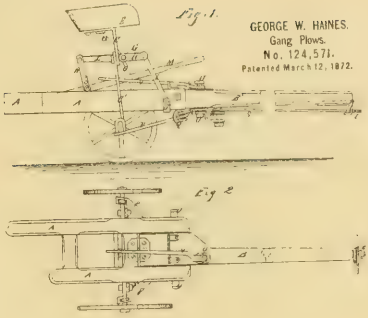
Witnesses: Chas. W. Dow, Jr. Albert

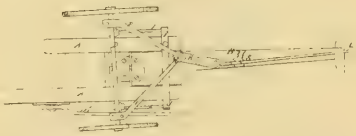
Inventors: Samuel B. Bowen, Abner M. Abbot, by their Atty. Wm. H. Wood

GEORGE W. HAINES.

Gang Plows.

No. 124,571. Patented March 12, 1872.





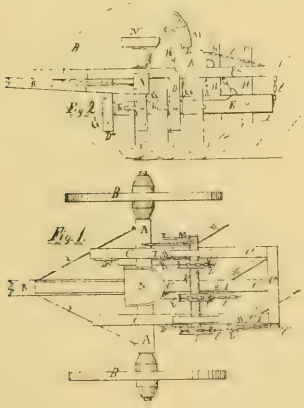
Witnesses: Geo. H. Strong, John Smith

Inventor: George W. Haines, by C. M. Smith, Atty.

DANIEL M. FAY.

Improvement in Gang Plows.

No. 124,802. Patented March 19, 1872.



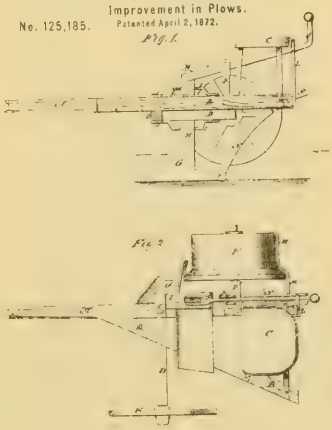
Witnesses: Wm. H. Shaw, Jno. Clock

Inventor: Daniel M. Fay, by W. H. Richards, Atty.

S. A. FANNING.

Improvement in Plows.

No. 125,185. Patented April 2, 1872.



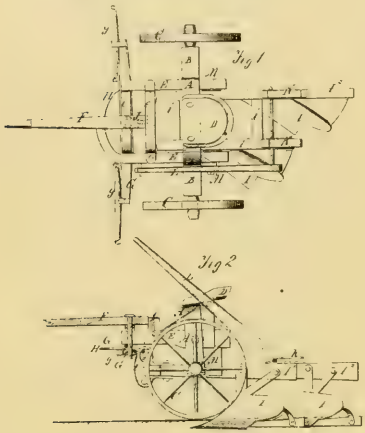
Witnesses: Wm. H. Shaw, Francis H. Smith

Inventor: Samuel A. Fanning, per Munn & Co. Attorneys.

ANDREW FREEMAN.

Improvement in Gang Plows.

No. 125,280. Patented April 2, 1872.



Witnesses

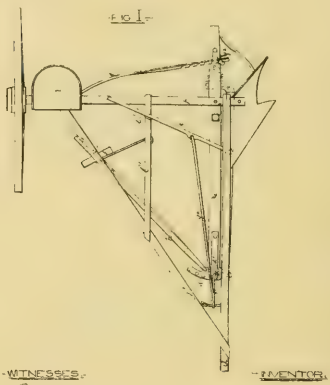
Inventor

2 Sheets--Sheet 1.

A. J. BORLAND.

Improvement in Wheel-Plows.

No. 126,255. Patented April 30, 1872.



WITNESSES.

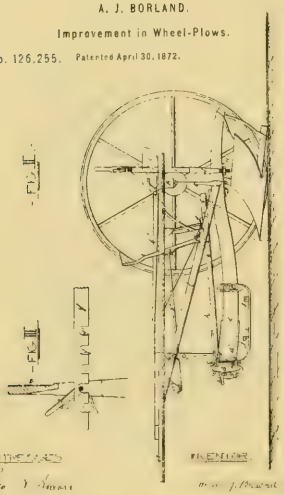
INVENTOR.

2 Sheets--Sheet 2.

A. J. BORLAND.

Improvement in Wheel-Plows.

No. 126,255. Patented April 30, 1872.



WITNESSES.

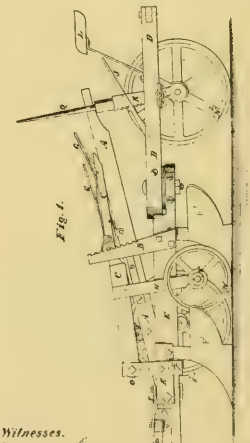
INVENTOR.

2 Sheets--Sheet 1.

JOSEPH COCHRANE.

Improvement in Wheel-Plows.

No. 126,447. Patented May 7, 1872.



Witnesses.

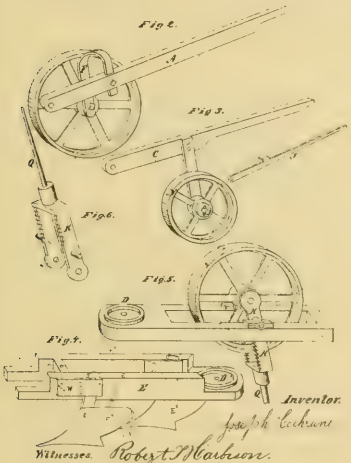
Inventor.

2 Sheets--Sheet 2.

JOSEPH COCHRANE.

Improvement in Wheel-Plows.

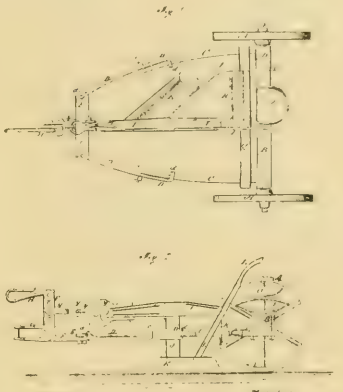
No. 126,447. Patented May 7, 1872.



W. C. McCOOL.

Improvement in Sulky-Plows.

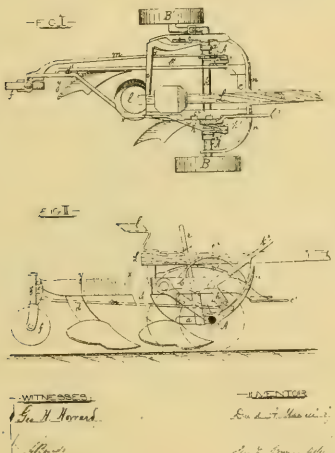
No. 126,976. Patented May 21, 1872.



DAVID A. MANUEL.

Improvement in Gang-Plow.

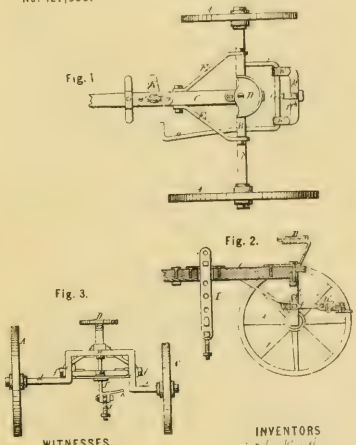
No. 127,495. Patented June 4, 1872.



JOHN WORRELL & JAMES H. RYNERSON

Improvement in Sulky-Attachments to Plows.

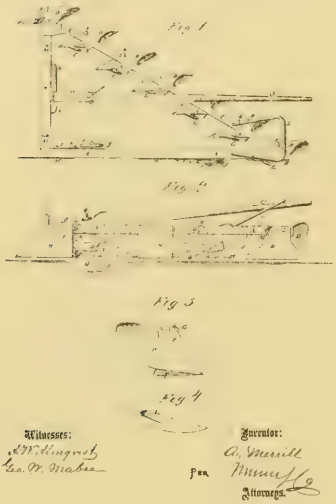
No. 127,538. Patented June 4, 1872.



A. MERRILL.

Improvement in Cultivators

No. 127,785. Patented June 11, 1872.



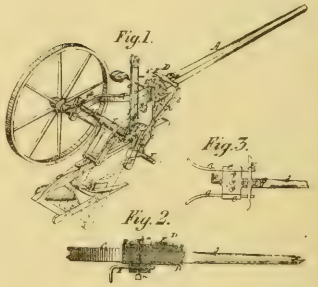
Witnesses:
E. W. Kingsbury
Geo. W. Maher

Inventor:
A. Merrill
Per. Munn & Co.
Attorneys.

WILLIAM HASLUP.

Improvement in Plows

No. 127,878. Patented June 11, 1872.



Witnesses
John A. Reis
Wm. F. Ellis

Inventor
Wm. Haslup
Jr.
M. Allemanno
Atty

WILLIAM PARRISH.

Improvement in Gang-Plow.

No. 128,245. Patented June 25, 1872.

Fig. 1.

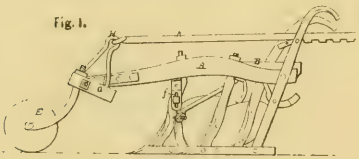
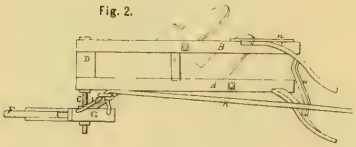


Fig. 2.



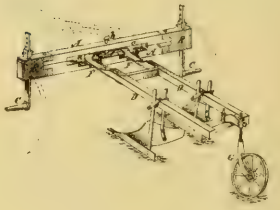
WITNESSES.
E. H. Bowles
J. E. Upham.

INVENTOR.
William Parrish
Chipman Thomas & C
Atty.

M. W. HARRIS.

Improvement in Plows.

No. 128,482. Patented July 2, 1872.



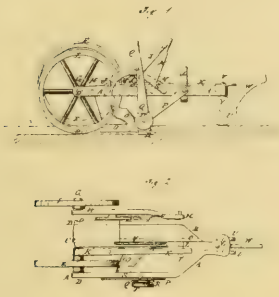
Witnesses
A. D. Littlin
H. A. Eaton

Inventor
Nelson W. Harris
Thomas G. Orwig
Attorney

G. TOZER.

Improvement in Wheel-Plows.

No. 128,829. Patented July 9, 1872.



Witnesses:

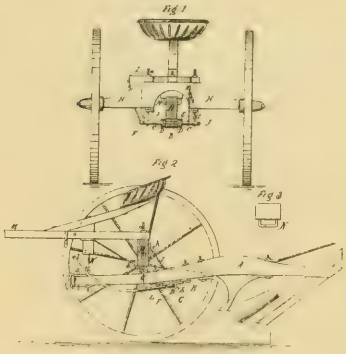
Inventor:

For Attorneys.

B. J. CRANE.

Improvement in Wheel-Plows.

No. 128,952. Patented July 16, 1872



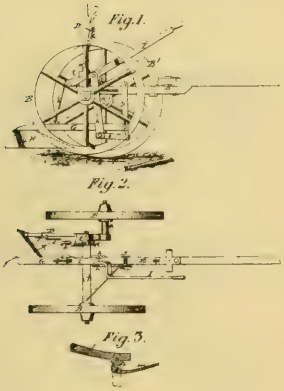
Witnesses:

Inventor:

H. W. NEAL.

Wheel-Plow.

No. 129,161. Patented July 16, 1872.



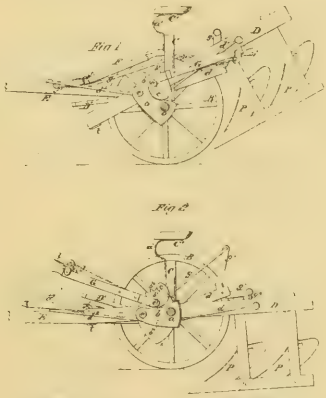
Witnesses

Inventor

J. & G. ARMSTRONG. 2 Sheets--Sheet 1

Improvement in Gang-Plows.

No. 130,177. Patented Aug. 6, 1872.



Witnesses

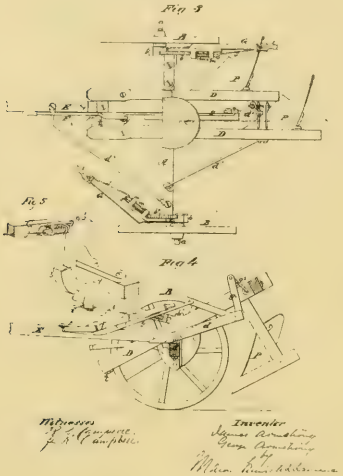
Inventor

2 Sheets--Sheet 2

J. & G. ARMSTRONG.

Improvement in Gang-Plows.

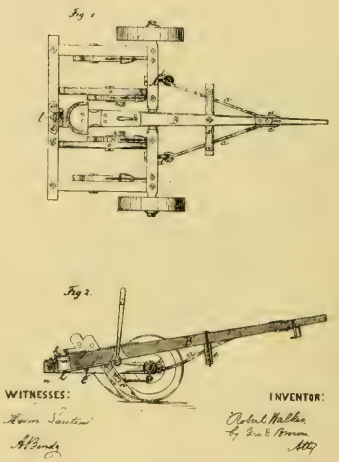
No. 130,177. Patented Aug. 6, 1872.



R. WALKER.

Improvement in Plows.

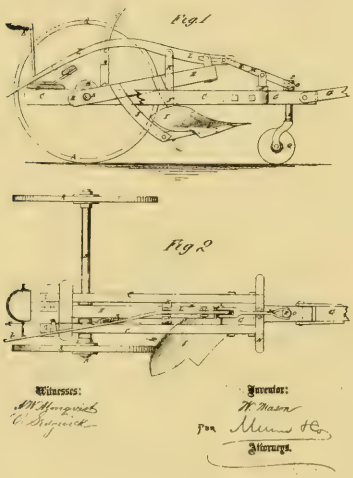
No. 130,256. Patented Aug. 6, 1872.



W. MASON.

Improvement in Wheel-Plows.

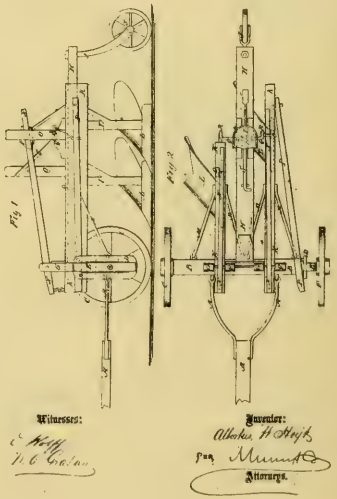
No. 131,063. Patented Sep. 3, 1872.



A. W. HOYT.

Gang-Plow.

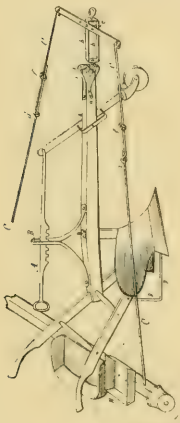
No. 131,218. Patented Sep. 10, 1872.



W. C. McCOOL.

Improvement in Plows.

No. 131,961. Patented Oct. 8, 1872.



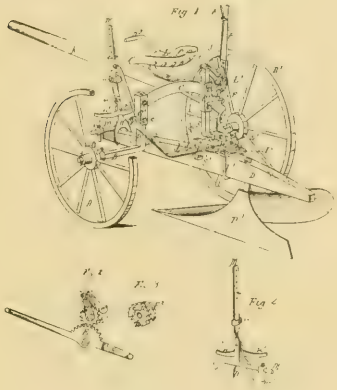
Witnesses:

Inventor:

C. N. OWEN

Improvement in Sulky-Plows.

No. 132,772 Patented Nov. 5, 1872



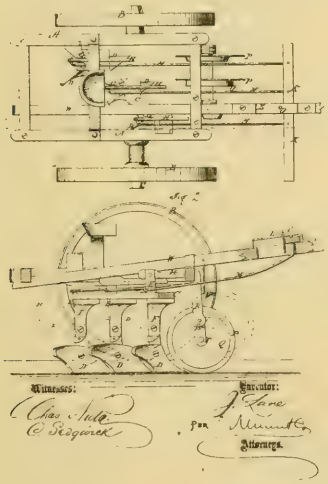
Witnesses.

Inventor.

J. LANE.

Improvement in Gang-Plows.

No. 132,842. Patented Nov. 5, 1872.



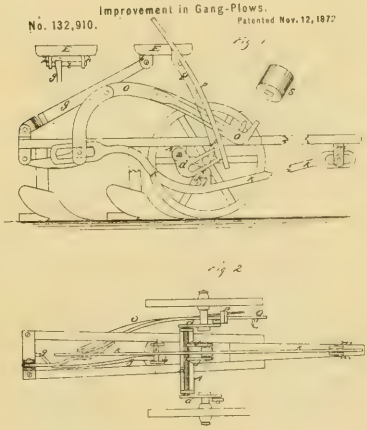
Witnesses:

Inventor:

C. KEWIN.

Improvement in Gang-Plows.

No. 132,910. Patented Nov. 12, 1872



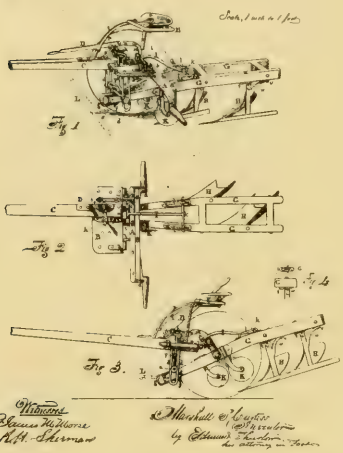
Witnesses

Inventor

M. S. CURTISS.

Improvement in Gang Plows.

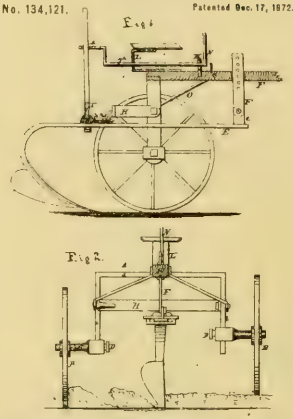
No. 133,206. Patented Nov. 19, 1872.



J. WORRELL.

Sulkey Plow.

No. 134,121. Patented Dec. 17, 1872.



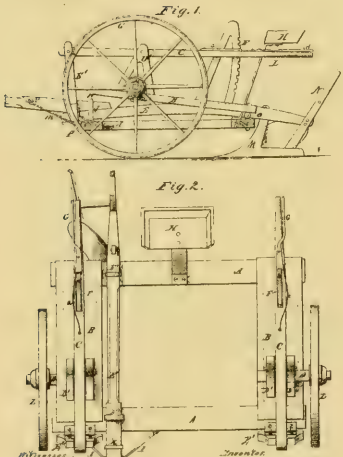
WITNESSES. INVENTOR.

E. F. Rose

E. RODD.

Plows.

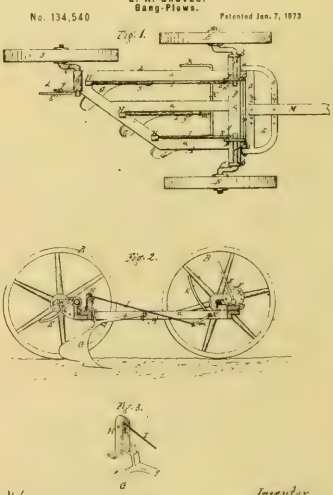
No 134,316 Patented Dec. 24, 1872



B. A. GROVES.

Gang-Plows.

No. 134,540 Patented Jan. 7, 1873



Witnesses.

C. H. Woodward

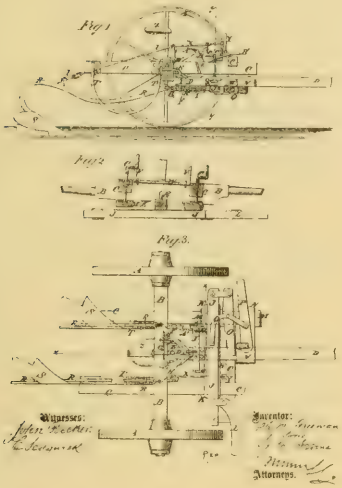
Inventor

Gus A. Groves

H. M. FREEMAN, J. LOWE, & J. F. STEVENS.

Wheel-Plows.

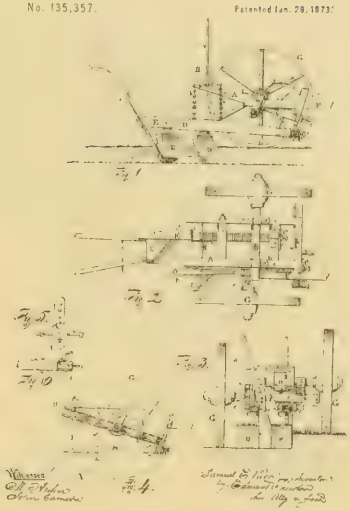
No. 134,878. Patented Jan. 14, 1873



S. E. PARR.

Gang-Plows

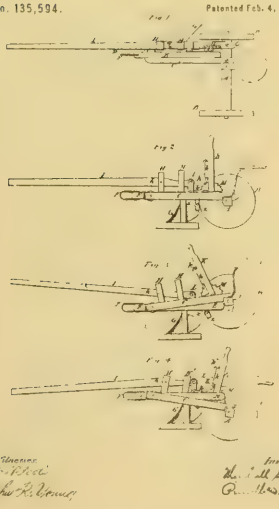
No. 135,357. Patented Jan. 28, 1873.



M. SATTLEY.

Wheel-Plows.

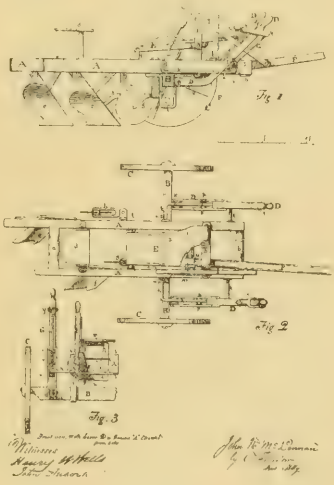
No. 135,594. Patented Feb. 4, 1873.



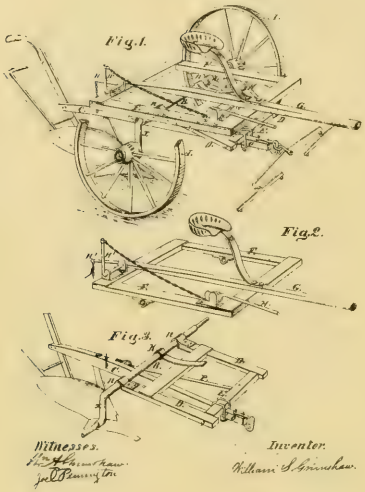
J. K. McLENNAN.

Gang-Plows.

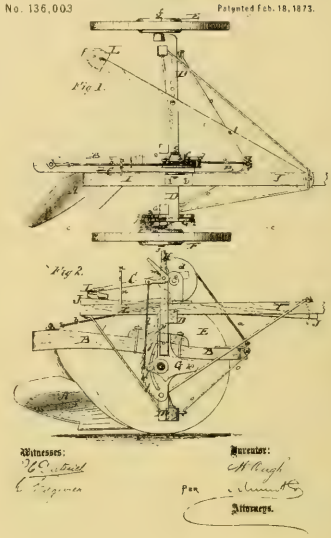
No. 135,654. Patented Feb. 11 1873.



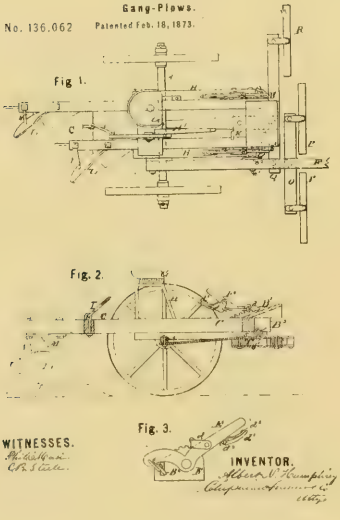
W. S. GRIMSHAW.
Wheel-Plows.
No. 135,800 Patented Feb. 11, 1873.



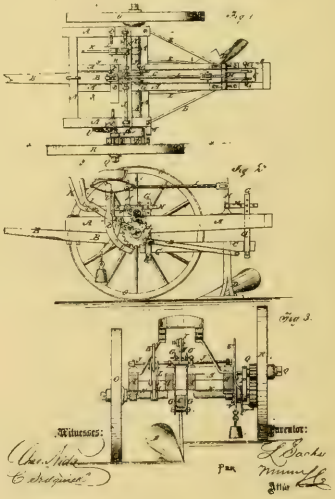
W. OUGH.
Sulky-Plows
No. 136,003 Patented Feb. 18, 1873.



A. N. HUMPHREY.
Gang-Plows.
No. 136,062 Patented Feb. 18, 1873.



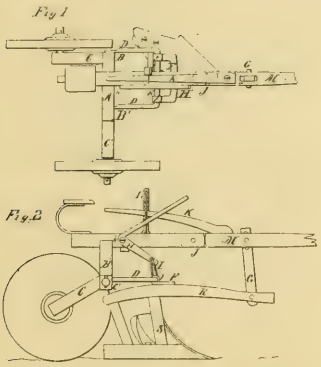
L. SACHSE.
Wheel-Plows.
No. 136,674 Patented March 11, 1873.



J. WORRELL.

Wheel-Plows.

No. 137,044 Patented March 18, 1873.



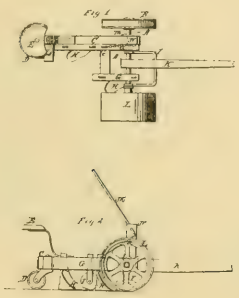
Witnesses:
E. M. Smith
Chas. H. Stoll

Inventor:
John Worrell
Chas. Mason & Co.
Attorneys

J. H. JANES, H. TUCKER & T. D. TERRY.

Wheel-Plows.

No. 137,611. Patented April 8, 1873



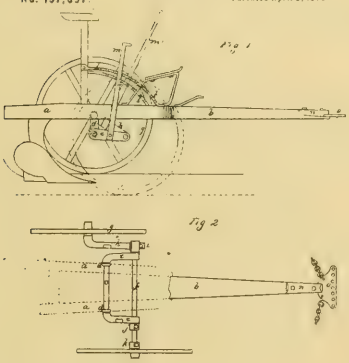
Witnesses
Geo. H. Dale
Wm. A. Reid

Inventor
Joel H. Janes, Thomas D. Terry, & Hiram Tucker
per
E. H. Watson & Co.
Attys.

G. W. MANUEL.

Gang-Plows.

No. 137,697. Patented April 8, 1873.



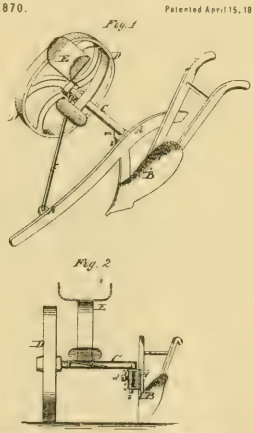
Witnesses.
Jas. F. Bishop
Philip Mahler

Inventor
George W. Manuel,
by E. M. Smith atty

S. L. STOCKSTILL & H. D. KUTZ

Plows.

No. 137,870. Patented April 15, 1873

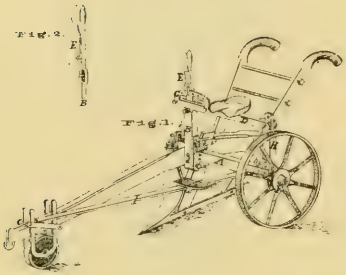


Witnesses:
E. Wolff
E. Sagerson

Per

Inventor:
S. L. Stockstill
H. D. Kutz
Mason & Co.
Attorneys.

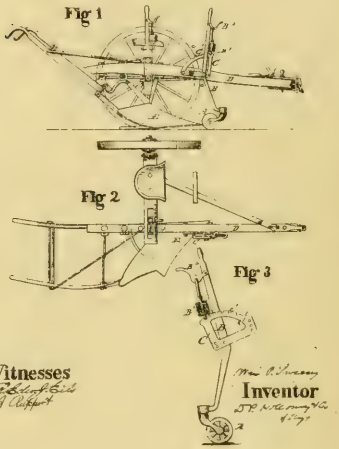
R. B. GROUND.
Plows.
No. 137,915. Patented April 15, 1873



Richard B. Ground
INVENTOR.

ATTEST.
Wm. M. Eccles
Geo. Lundt

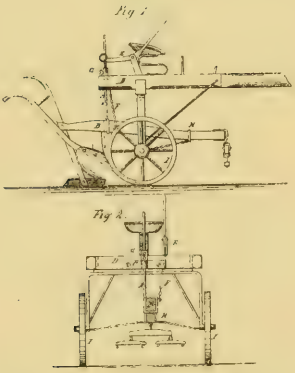
W. P. SWEENY.
Wheel-Plows.
No. 137,975. Patented April 15, 1873.



Witnesses
Robert Gill
A. Clifford

Wm. P. Sweeny
Inventor
By Wm. Murray Jr.
Atty.

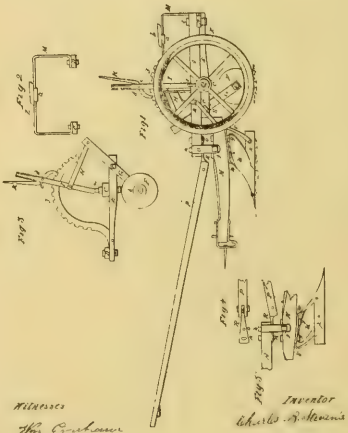
F. HASBROOK.
Wheel-Plows.
No 138,329. Patented April 29, 1873



Witnesses.
B. F. Wells.
E. F. Hasbrook.

Inventor.
Fred Hasbrook

C. B. STEVENS.
Wheel Plows.
No. 139,032. Patented May 20, 1873.

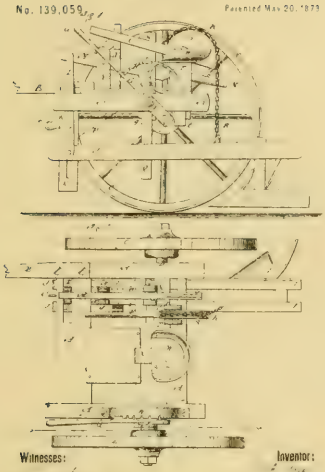


Witnesses
Wm. Gerhauser
R. Pickering

Inventor
Charles B. Stevens

I. B. GREEN.
Wheel-Plows.

No. 139,059. Patented May 20, 1873.



Witnesses:

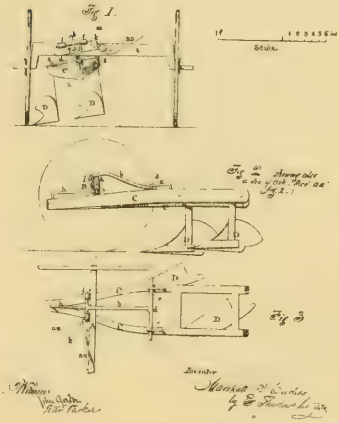
Inventor:

Per

Attorneys.

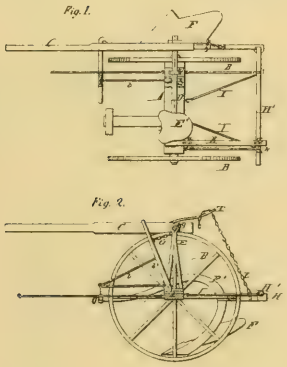
M. S. CURTISS.
Gang-Plows.

No. 140,480. Patented July 1, 1873.



D. W. HUGHES.
Sulky-Plows.

No. 140,505. Patented July 1, 1873.



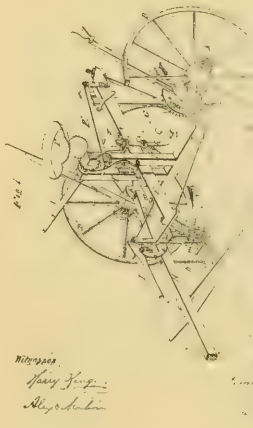
Witnesses.

Inventor.

2 Sheets—Sheet 1

H. M. SKINNER.
Wheel-Plows

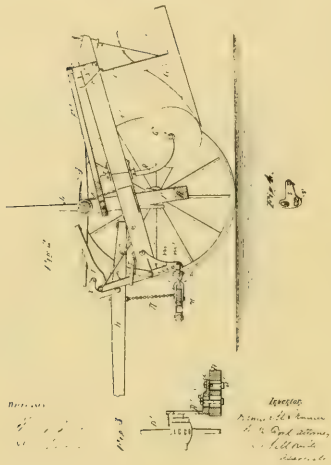
No. 140,551. Patented July 1, 1873.



2 Sheets--Sheet 2

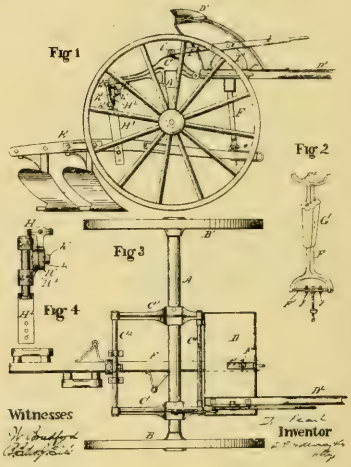
H. M. SKINNER.
Wheel-Plows.

No 140,551. Patented July 1, 1873.



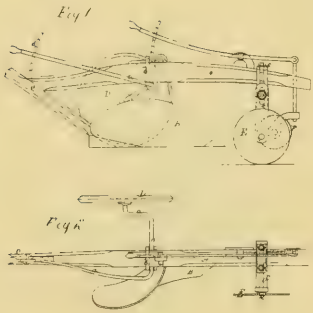
J. C. PEARL.
Wheel-Plows.

No. 141,073. Patented July 22, 1873



J. MARR.
Plows.

No. 141,881. Patented August 19, 1873.

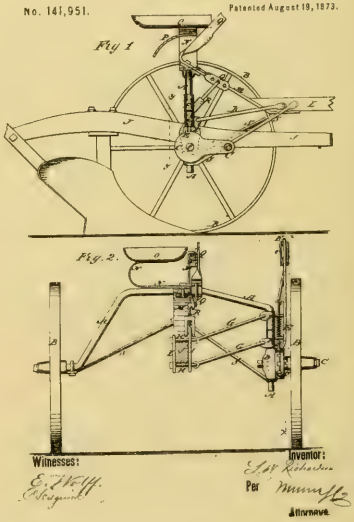


Witnesses.

Inventor, By

L. W. RICHARDSON.
Wheel-Plows.

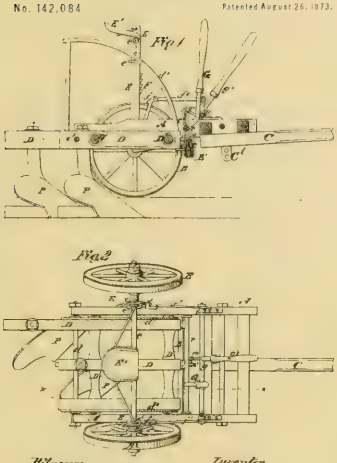
No. 141,951. Patented August 19, 1873.



2 Sheets--Sheet 1

R. CORETH.
Gang-Plows.

No. 142,084 Patented August 26, 1873.



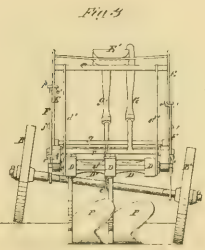
Witnesses
A. J. Campbell
J. F. Cadbee

Inventor
Rudolph Coreth
by
Milton, Richards & Hanson

2 Sheets--Sheet 2

R. CORETH
Gang-Plows.

No. 142,084 Patented August 26 1873

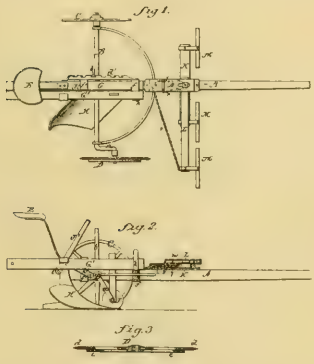


Witnesses
A. J. Campbell
J. F. Cadbee

Inventor
Rudolph Coreth
by
Milton, Richards & Hanson

T. D. TERRY, A. CASE & C. LARKIN.
Wheel-Plows.

No. 142,964. Patented September 16, 1873.

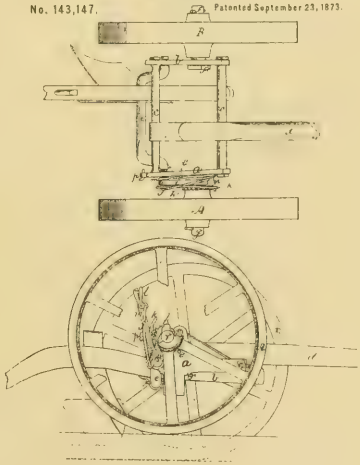


Witnesses
John A. Sim
Edward E. Ellis

Inventors
Telemachus D. Terry, Cleaty A. Case & Charles Larkin
by
C. H. Watson & Co.
Attys

J. D. HARRISON.
Wheel-Plows.

No. 143,147. Patented September 23, 1873.

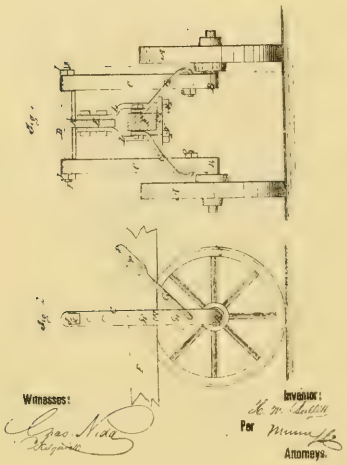


Witness,
P. H. Kessler
Ezra Potter

John D. Harrison
Inventor
H. A. & P. H. K.
Attys

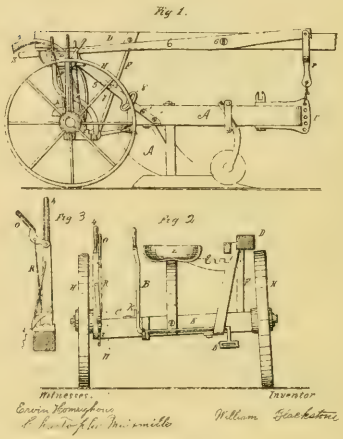
H. M. BULLITT.
Plow-Carriages.

No. 143,434. Patented Oct. 7, 1873.



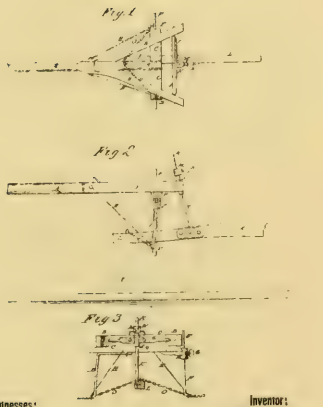
W. BLACKSTONE.
Plows.

No. 143,660. Patented Oct. 14, 1873.



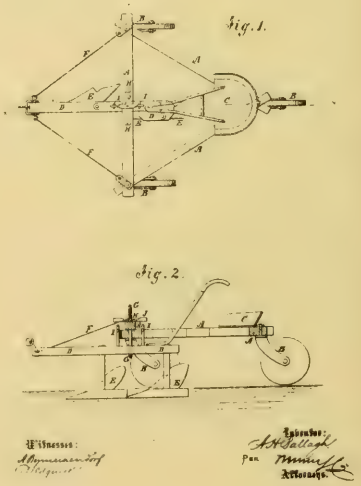
F. HASBROOK
Wheel-Plows.

No 144,453. Patented Nov. 11, 1873.

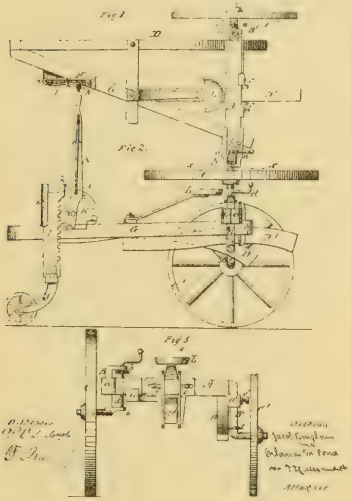


A. H. BALLAGH.
Riding Attachments for Plows.

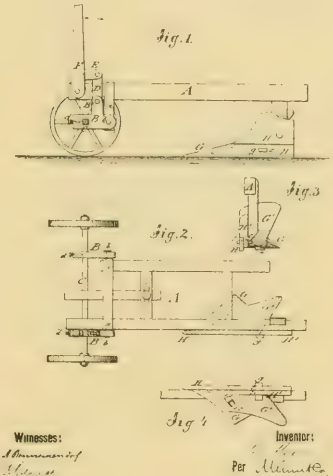
No 145,083. Patented Dec. 2, 1873.



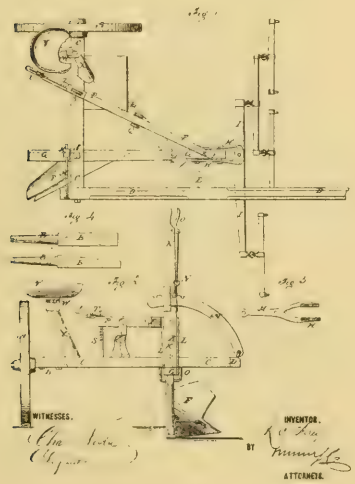
J. BINGHAM & O. M. POND.
Wheel Plows.
No. 145,147. Patented Dec. 2, 1873.



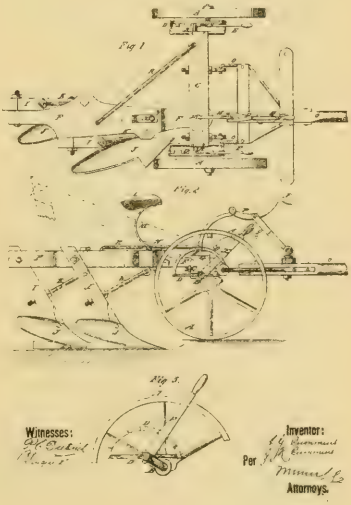
C. MYERS.
Subsoil Gang-Plows.
No 145 361 Patented Dec. 9, 1873



R. C. AIREY.
One-Wheeled Three-Horse Riding-Plows.
No. 146,562 Patented Jan. 20, 1874

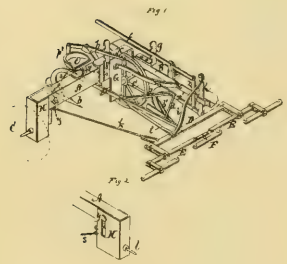


A. G. & J. R. CUMMINS
Gang-Plows.
No. 146,807 Patented Jan. 27, 1874



W. NEWLIN.
Gang-Plows.

No. 146,939. Patented Jan. 27, 1874.



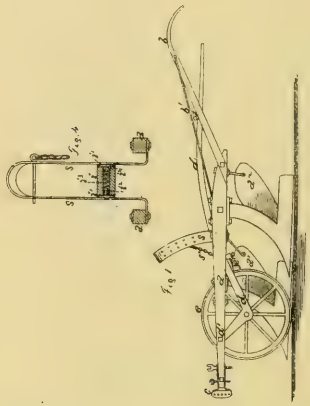
Witnesses.
Henry N. Willis
C. L. Guest

Inventor.
Wm Newlin.
per
Alexander Mason
Attorneys.

3 Sheets--Sheet 1

L. CHAPMAN.
Double-Furrow Plows.

No. 146,987. Patented Feb. 3, 1874.



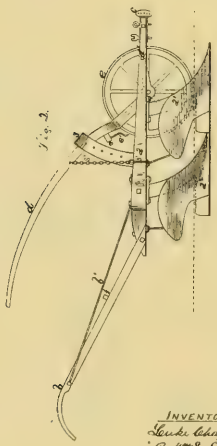
Witnesses
John Pollitt
T. E. Steele

Inventor
Lewis Chapman
By Wm E. Simonds
Atty.

3 Sheets--Sheet 2.

L. CHAPMAN.
Double-Furrow Plows.

No. 146,987. Patented Feb. 3, 1874.



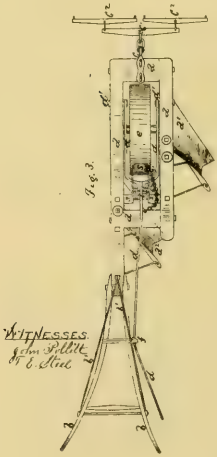
WITNESSES
John Pollitt
T. E. Steele

INVENTOR.
Lewis Chapman
By Wm E. Simonds
Atty.

3 Sheets--Sheet 3

L. CHAPMAN.
Double-Furrow Plows.

No. 146,987. Patented Feb. 3, 1874.

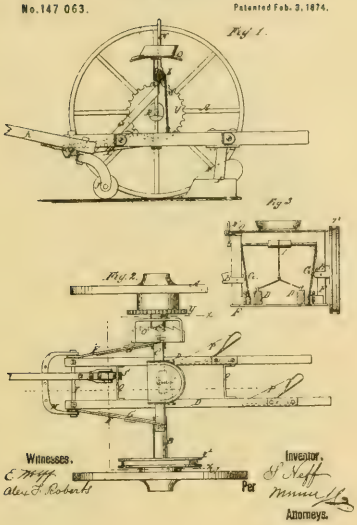


WITNESSES
John Pollitt
T. E. Steele

INVENTOR.
Lewis Chapman
By Wm E. Simonds
Atty.

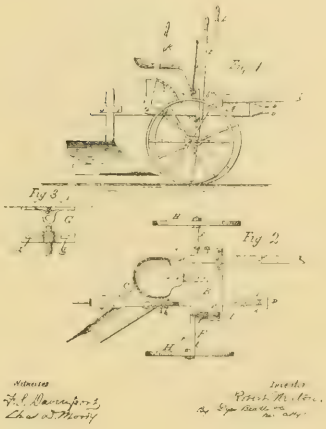
S. NEFF.
Wheel-Plows.

No. 147 063. Patented Feb. 3, 1874.



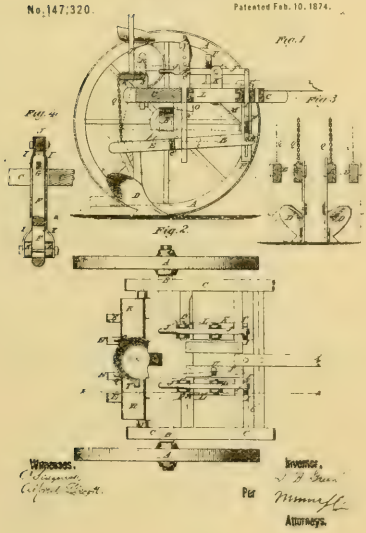
R. NEWTON.
Sulky-Plows.

No. 147,156. Patented Feb. 3, 1874.



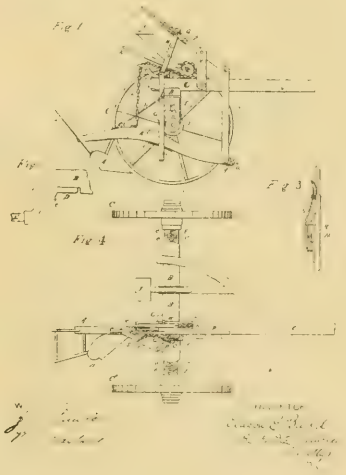
J. B. GREEN.
Wheel-Plows.

No. 147,320. Patented Feb. 10, 1874.



E. E. BAIRD
Sulky-Plows.

No. 147,741. Patented Feb. 24, 1874.

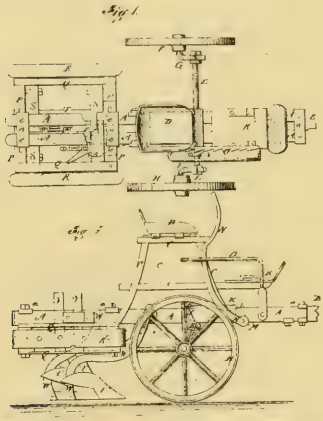


3 Sheets--Sheet 1.

J. URBAN.

Combined Plows, Planters, and Cultivators.

No. 147,882. Patented Feb. 24, 1874.



Witnesses: Inventor: J. Urban

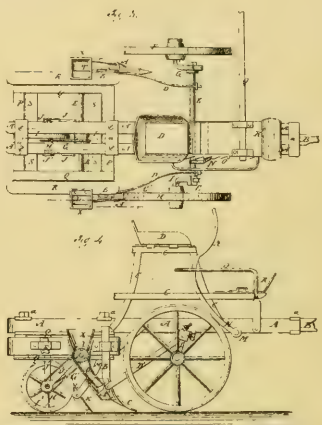
Per Attorneys.

3 Sheets--Sheet 2.

J. URBAN.

Combined Plows, Planters and Cultivators.

No. 147,882. Patented Feb. 24, 1874.



Witnesses: Inventor: J. Urban

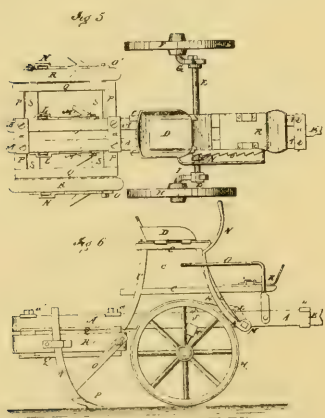
Per Attorneys.

3 Sheets--Sheet 3.

J. URBAN.

Combined Plows, Planters, and Cultivators.

No. 147,882. Patented Feb. 24, 1874.



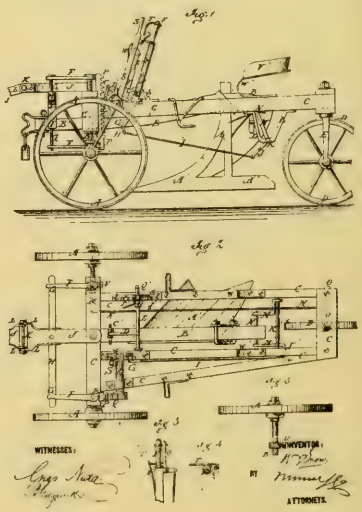
Witnesses: Inventor: J. Urban

Per Attorneys.

W. SNOW.

Three-Wheel Riding-Plows.

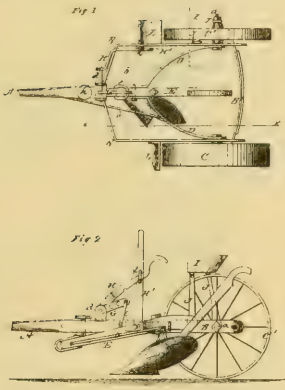
No. 148,149. Patented March 3, 1874.



WITNESSES: INVENTOR: W. Snow

BY ATTORNEYS.

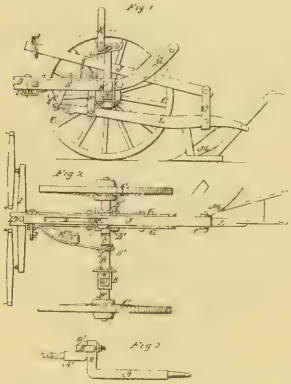
C. ALBERTSON.
Breaking Plows.
No. 148,398 Patented March 10, 1874.



Witnesses
P. C. Dodge
Henry C. Ebold

Inventor
Calvin Albertson
Per C. H. Walburg Atty

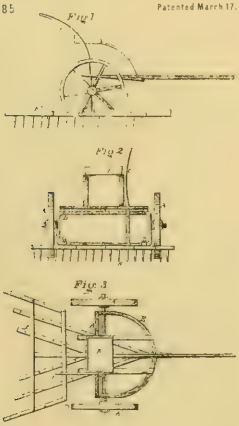
S. C. HAIGHT.
Wheel-Plows.
No. 148,448. Patented March 10, 1874.



Witnesses
Henry H. Miller
C. H. Ewd.

Inventor
George C. Haight
Pierson & Duncan
Attorneys

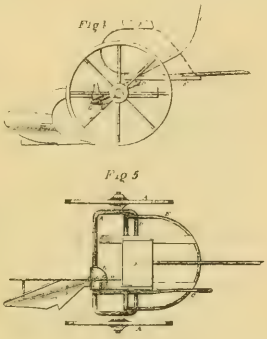
2 Sheets--Sheet 1.
G. W. VAN GORDER.
Sulky-Plows and Harrows.
No 148,585 Patented March 17, 1874.



Witnesses.
A. F. Gerritt
E. R. Morgan

Inventor.
G. W. Van Gorder
Per Burridge & Co.
Attys.

2 Sheets--Sheet 2
G. W. VAN GORDER.
Sulky-Plows and Harrows.
No. 148,585. Patented March 17 1874.

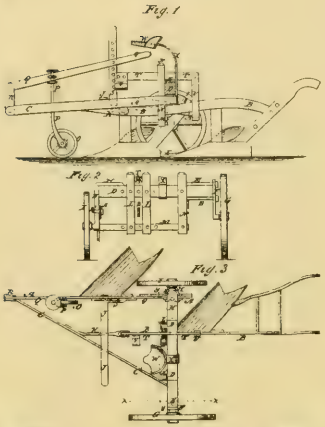


Witnesses
A. F. Gerritt
E. R. Morgan

Inventor.
G. W. Van Gorder
Per Burridge & Co.
Attys.

J. R. McCONNELL.
Wheel-Plows.

No. 149,140. Patented March 31, 1874

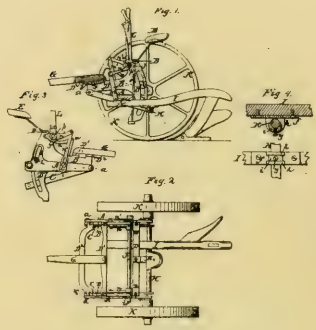


Witnesses:
E. Wolff
Chas. Zimmick

Inventor:
J. R. McConnell
Per Munn & Co.
Attorneys.

J. D. HARRISON.
Plow-Sulkies.

No. 150,034. Patented April 21, 1874.



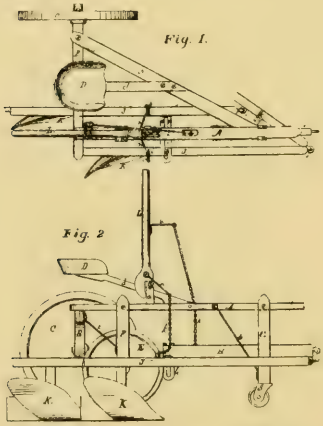
WITNESSES.
Henry N. Miller
C. L. Curtis

INVENTOR
John D. Harrison
By Alexander Dunlop
Attorney.

2 Sheets--Sheet 1.

E. R. McCALL.
Gang-Plow Attachments.

No. 150,425. Patented May 5, 1874.



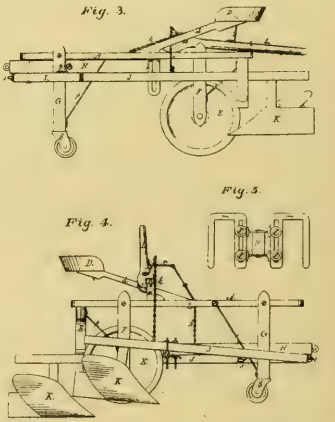
Witnesses.
C. C. Dole
S. M. Whipple

Inventor.
Edwin R. McCall
By F. B. Wooroff, Attorney

2 Sheets--Sheet 2.

E. R. McCALL.
Gang-Plow Attachments.

No. 150,425. Patented May 5, 1874.



Witnesses.
C. C. Dole
S. M. Whipple

Inventor.
Edwin R. McCall
By F. B. Wooroff, Attorney

2 Sheets--Sheet 1

H. & J. OLDENDORPH.
Gang-Plows.

No. 150,702. Patented May 12, 1874.

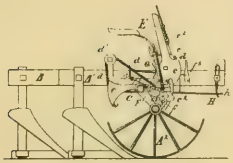


fig. 1.

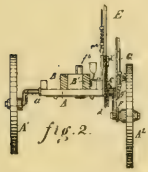


fig. 2.

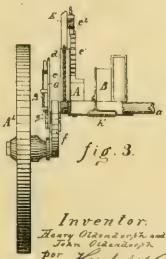


fig. 3.

Witnesses
Chas F. Mauer
J. H. Hottel

Inventor.
Henry Oldendorph and
John Oldendorph
per Hottel & Co
Attys.

2 Sheets--Sheet 2

H. & J. OLDENDORPH.
Gang-Plows.

No. 150,702. Patented May 12, 1874

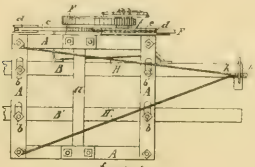


fig. 4

fig. 5

fig. 6.

fig. 7

Witnesses.
J. H. Hottel.
Chas F. Mauer

Inventor.
Henry Oldendorph & John Oldendorph
per Hottel & Co
Attys.

2 Sheets--Sheet 1.

J. STONE.
Gang-Plows.

No. 150,727. Patented May 12, 1874.

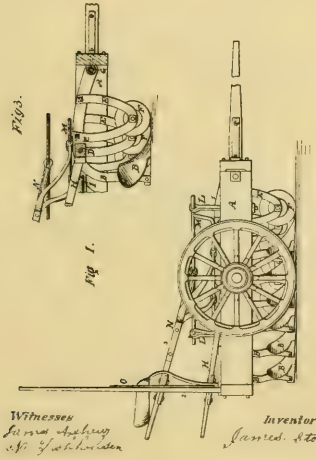


Fig. 3.

Fig. 1.

Witnesses
James Appleby
N. Fishholden

Inventor
James Stone

2 Sheets--Sheet 2

J. STONE.
Gang-Plows.

No. 150,727. Patented May 12, 1874

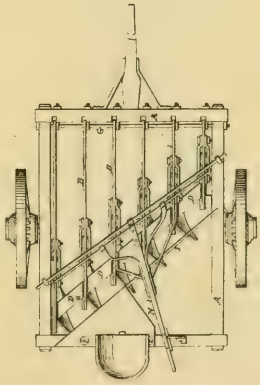


Fig. 2.

Witnesses
James Appleby
N. Fishholden

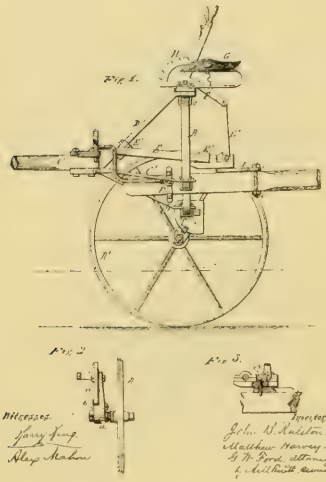
Inventor.
James Stone

2 Sheets--Sheet 1.

J. B. RALSTON & M. HARVEY.

Wheel-Plows.

No. 151,054. Patented May 19, 1874.

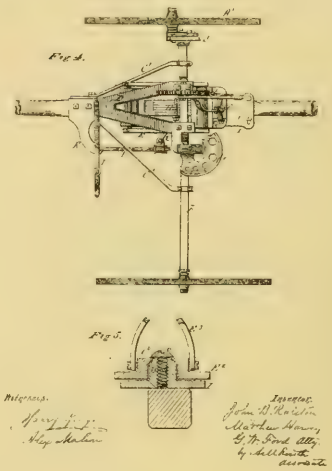


2 Sheets--Sheet 2

J. B. RALSTON & M. HARVEY.

Wheel-Plows.

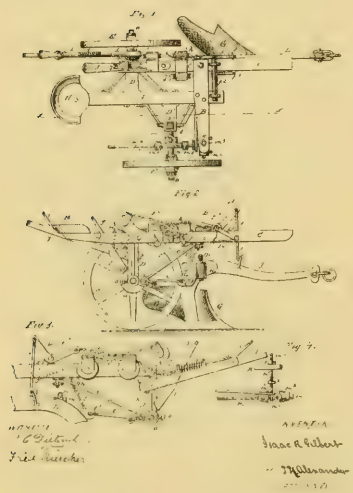
No. 151,054. Patented May 19, 1874.



I. P. GILBERT.

Wheel Plows.

No. 151,114 Patented May 19, 1874.

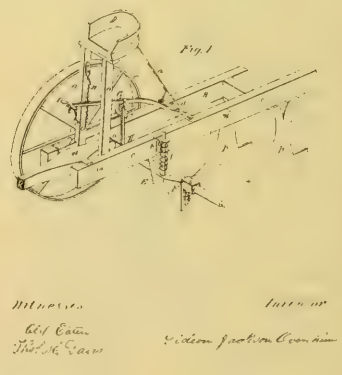


2 Sheets--Sheet 1

G. J. OVERSHINER.

Gang-Plows.

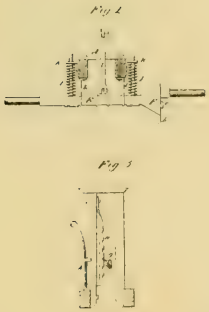
No. 151,425. Patented May 26, 1874.



2 Sheets--Sheet 2

G. J. OVERSHINER.
Gang-Plows.

No. 151,425. Patented May 26, 1874.

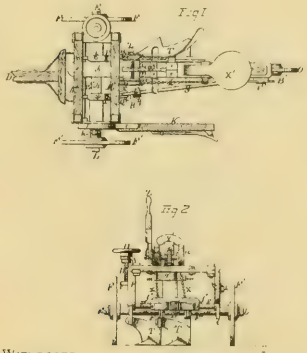


Witnesses:
Inventor

3 Sheets--Sheet 1.

E. A. BEERS.
Gang-Plows.

No. 151,649. Patented June 2, 1874.

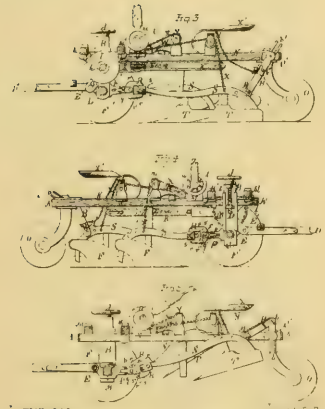


WITNESSES:
INVENTOR.
Edwin A. Beers, by
Prindle & Brown his Attys

3 Sheets--Sheet 2.

E. A. BEERS.
Gang-Plows.

No. 151,649. Patented June 2, 1874.

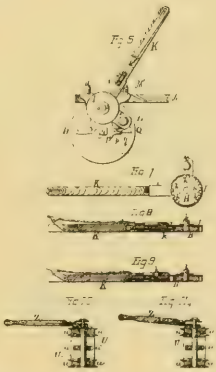


WITNESSES:
INVENTOR

3 Sheets--Sheet 3.

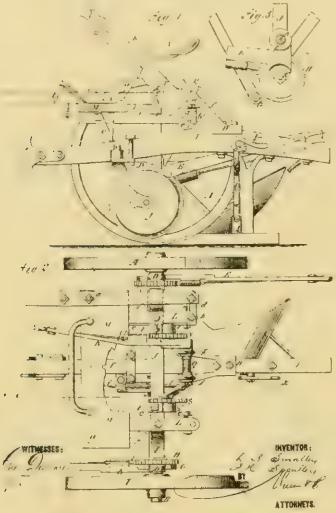
E. A. BEERS.
Gang-Plows.

No. 151,649. Patented June 2, 1874.

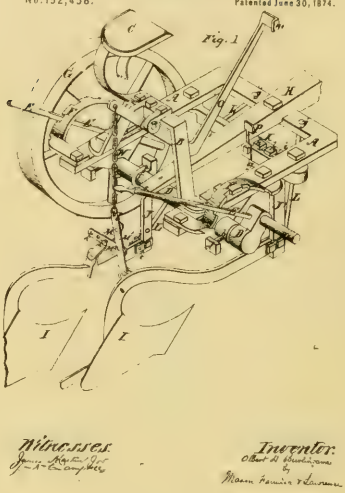


WITNESSES:
INVENTOR
Edwin A. Beers, by
Prindle & Brown his Attys

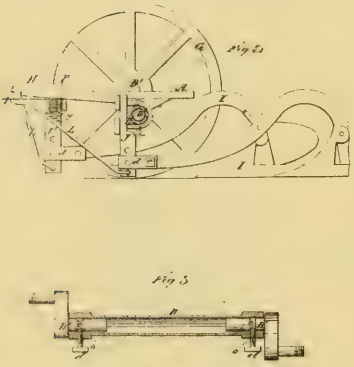
D. A. & J. H. SMALLEY
Sulky Plows and Cultivators.
No. 152,018. Patented June 16, 1874.



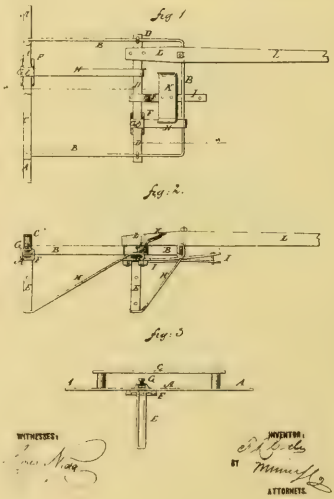
A. H. BURLINGAME.
2 Sheets--Sheet 1
Gang-Plows.
No. 152,458. Patented June 30, 1874.



A. H. BURLINGAME.
2 Sheets--Sheet 2.
Gang-Plows.
No. 152,458. Patented June 30, 1874.

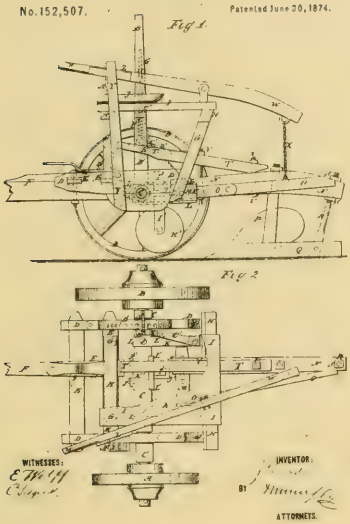


F. R. CROTHERS.
Gang-Plows.
No. 152,464. Patented June 30, 1874.



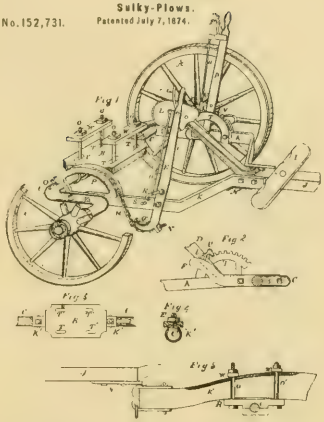
J. H. PAYTON.
Riding Plows.

No. 152,507. Patented June 30, 1874.



N. De BOIS.
Sulky-Plows.

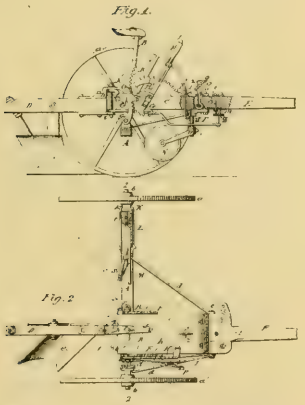
No. 152,731. Patented July 7, 1874.



2 Sheets--Sheet 1.

D. A. SEARS.
Sulky-Plows.

No. 152,771. Patented July 7, 1874.

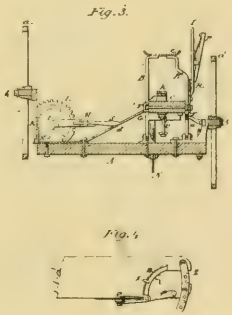


Attest:
Inventor:
Wales A. Sears
by his Atty
W. D. Baldwin

2 Sheets--Sheet 2.

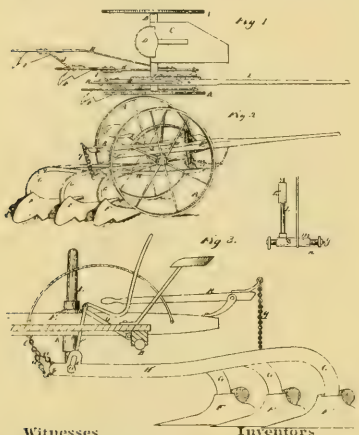
D. A. SEARS.
Sulky-Plows.

No. 152,771. Patented July 7, 1874.



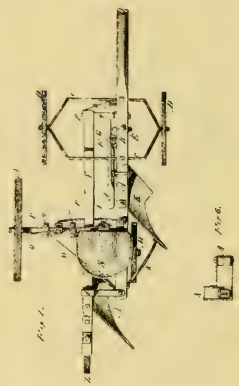
Attest:
Inventor:
Wales A. Sears
by his Atty
W. D. Baldwin

W. O. M. BERRY.
Gang-Plows.
No. 153,037 Patented July 14, 1874

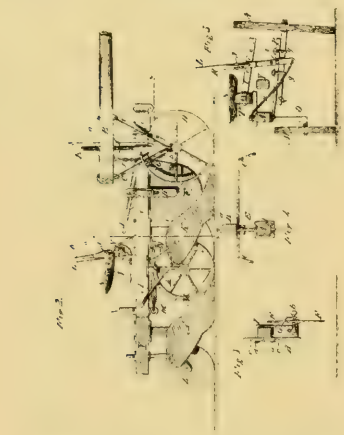


Witnesses
Inventors

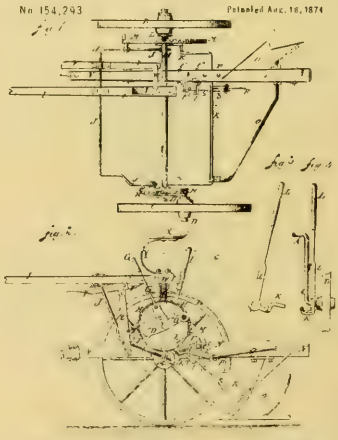
2 Sheets--Sheet 1
G. W. HUNT.
Carriage Plows.
No. 153,256. Patented July 21, 1874



2 Sheets--Sheet 2
G. W. HUNT.
Carriage Plows.
No. 153,256. Patented July 21, 1874

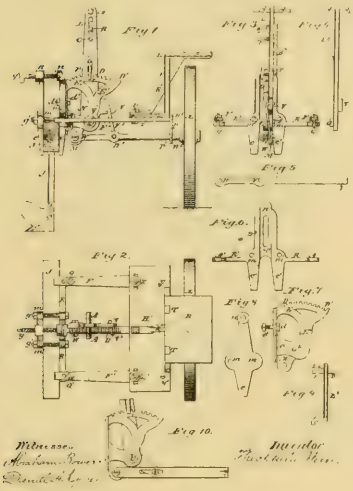


W. STARLING.
Sulky-Plows.
No. 154,243 Patented Aug. 18, 1874

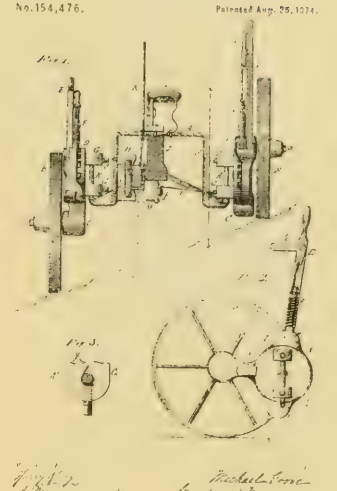


Witnesses:
Inventor:
Per
Attorneys.

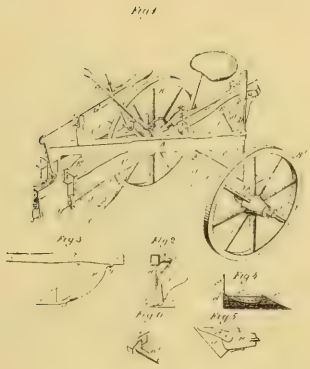
T. WEAVER.
Sulky Attachments for Plows.
No. 154,306. Patented Aug. 18, 1874



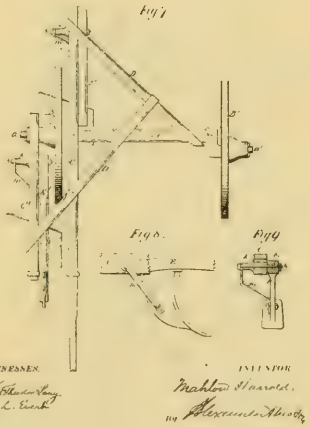
M. GROVE
Sulky-Plows
No. 154,476. Patented Aug. 25, 1874.



2 Sheets--Sheet 1
M. HARROLD.
Gang-Plows.
No. 154,863. Patented Sept. 8, 1874.

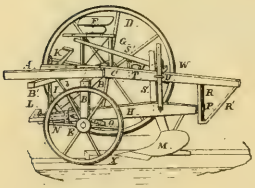


2 Sheets--Sheet 2
M. HARROLD.
Gang-Plows.
No. 154,863. Patented Sept 8, 1874



C. B. STEVENS.
Wheel-Plows.

No. 154,994. Patented Sept. 15, 1874.

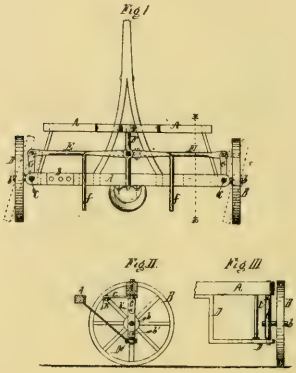


Witnesses: Kem Hollands, Jos. H. Scully.

Inventor: Charles Brewster Stevens. By Saml. J. Wallace. Attorney.

S. B. PEUGH.
Carriages for Plows.

No. 155,040. Patented Sept. 15, 1874.



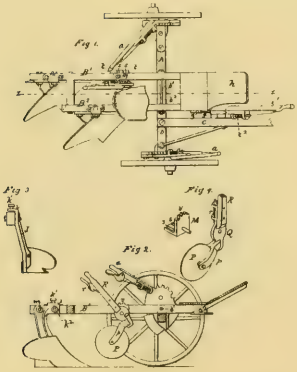
Witnesses: Franklin Garrett, Richard Gerner.

Inventor: Spencer S. Peugh. For Henry Gerner Atty.

2 Sheets--Sheet 1.

J. & G. ARMSTRONG.
Gang-Plows.

No. 155,134. Patented Sept. 22, 1874.



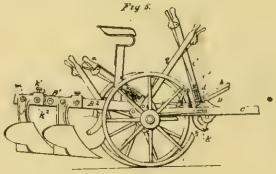
Witnesses: H. K. Dutcher, Thomas Byrne.

Inventor: James Armstrong, George Armstrong. Per H. S. Hutt, Attorney.

2 Sheets--Sheet 2.

J. & G. ARMSTRONG.
Gang-Plows.

No. 155,134. Patented Sept. 22, 1874.



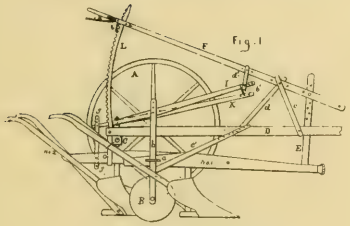
Witnesses: H. K. Dutcher, Thomas Byrne.

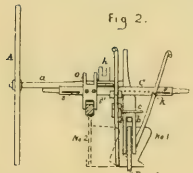
Inventor: James Armstrong, George Armstrong. Per H. S. Hutt, Attorney.

3 Sheets--Sheet 1

H. BUMGARNER.
Gang-Plows.

No. 155,418. Patented Sept. 29, 1874.





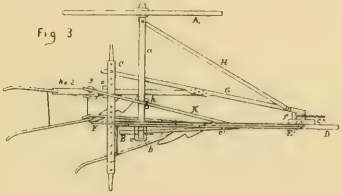
Witnesses:
G. B. Towles
A. T. Lacey

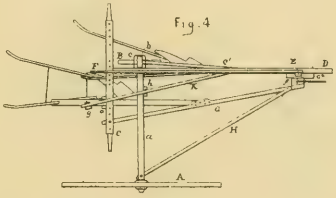
Inventor:
Henry Bumgarner
By W. Burris Atty

3 Sheets--Sheet 2.

H. BUMGARNER.
Gang-Plows.

No. 155,418. Patented Sept. 29, 1874.





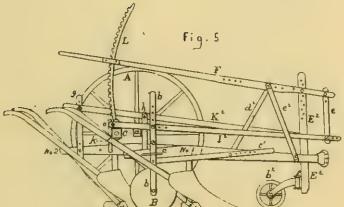
Witnesses:
G. B. Towles
A. T. Lacey

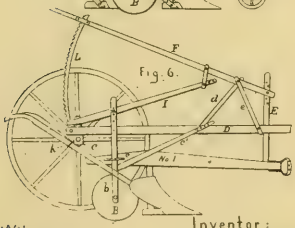
Inventor:
Henry Bumgarner
By W. Burris Atty

3 Sheets--Sheet 3.

H. BUMGARNER.
Gang-Plows.

No. 155,418. Patented Sept. 29, 1874.



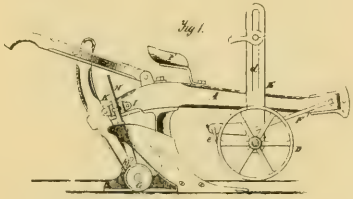


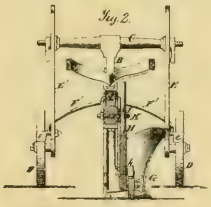
Witnesses:
G. B. Towles
A. T. Lacey

Inventor:
Henry Bumgarner
By W. Burris Atty

T. E. C. BRINLY.
Wheel-Plows.

No. 155,825. Patented Oct. 13, 1874.

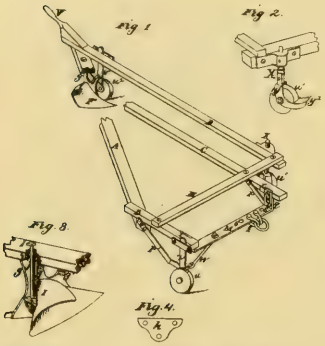




Witnesses.
H. Gilchrist
[illegible]

T. E. C. Brinly
Inventor.
[illegible]
Atty

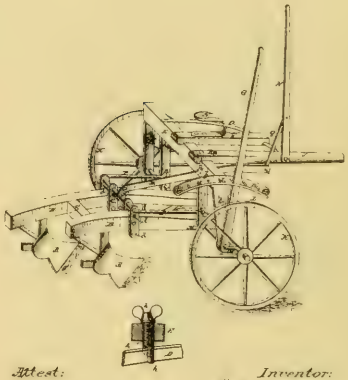
R. N. HOWES, W. A. DORR & J. B. WEBSTER.
Gang-Plows.
No. 155,871. Patented Oct. 13, 1874.



Witnesses
John L. Boone
E. F. Richardson

Inventor
Robert N. Howes
William A. Dorr
Joshua B. Webster
by Dewey & Co
Attorneys

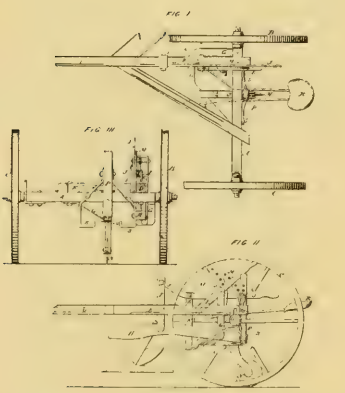
W. J. BROWN, J. G. HAYZLETT & B. F. SEATON.
Gang-Plows.
No. 156,128. Patented Oct. 20, 1874.



Witnesses:
A. E. Stone
Peter Whiting

Inventors:
William J. Brown
John G. Hayzlett
Benjamin F. Seaton

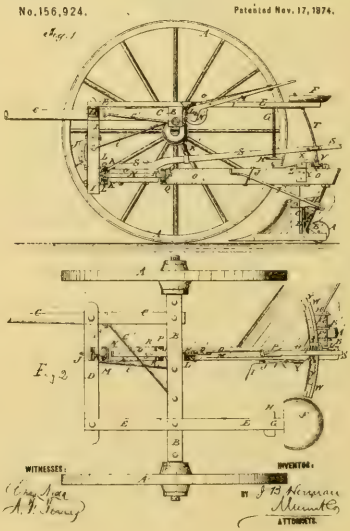
C. T. ELLISTON.
Plows.
No. 156,554. Patented Nov. 3, 1874.



WITNESSES
R. W. Ellis Kimball
Thomas Pagan

INVENTOR
Chas. T. Elliston
Per A. C. Smith
Attorney

J. B. HERMAN.
Wheel-Plows.
No. 156,924. Patented Nov. 17, 1874.

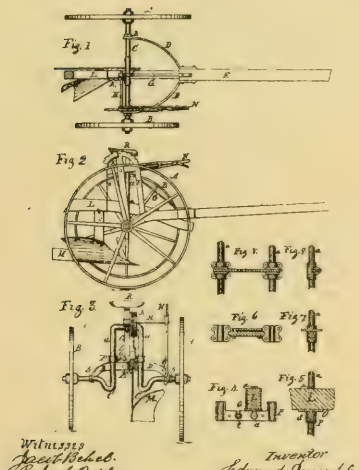


WITNESSES:
Chas. Sage
A. F. Jenny

INVENTOR:
J. B. Herman
by Munn & Co
ATTORNEYS.

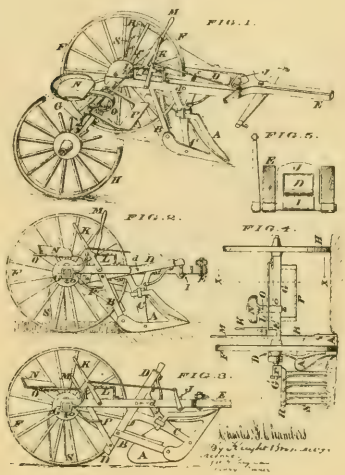
E. DERWENT, Jr.
Sulky Plows.

No. 157,119. Patented Nov. 24, 1874.



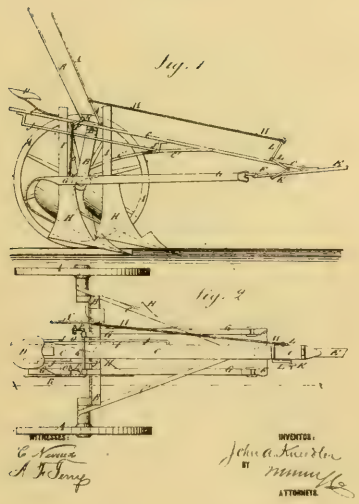
C. F. CHAMBERS.
Plows.

No. 157,372. Patented Dec. 1, 1874.



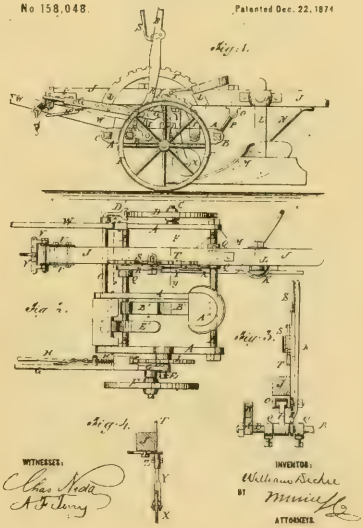
J. A. KNEEDLER.
Sulky-Plows.

No. 157,842. Patented Dec. 15, 1874.

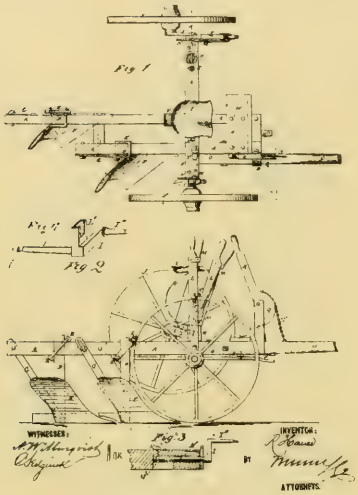


W. DICKIE.
Wheel-Plows.

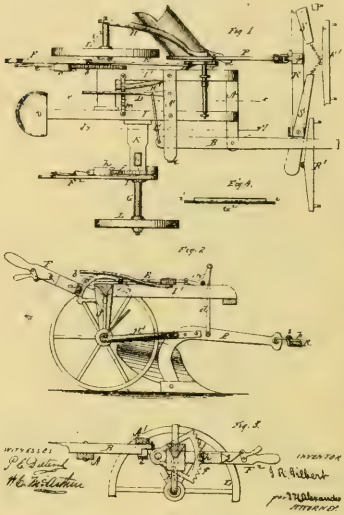
No 158,048. Patented Dec. 22, 1874



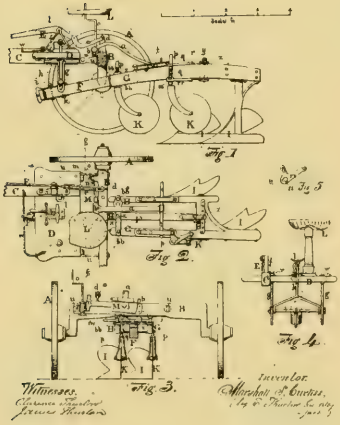
R. HANCE.
Gang-Plows.
No 158,069. Patented Dec. 29, 1874.



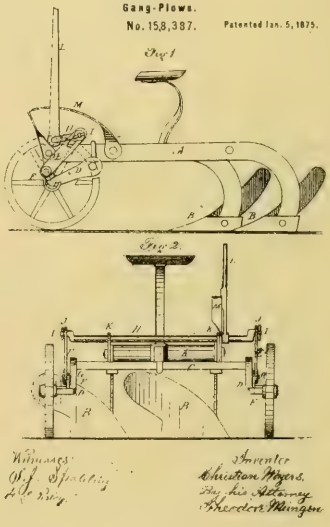
I. R. GILBERT.
Wheel-Plows.
No 158,207. Patented Dec. 29, 1874.



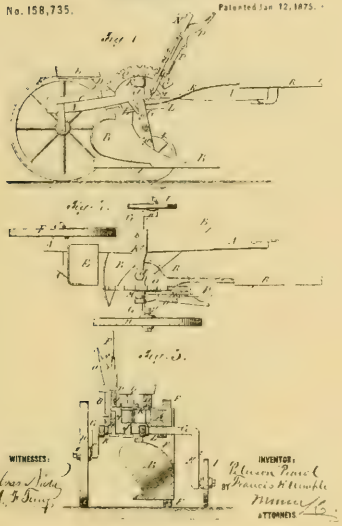
M. S. CURTISS.
Gang-Plows.
No. 158,253 Patented Dec. 29, 1874.



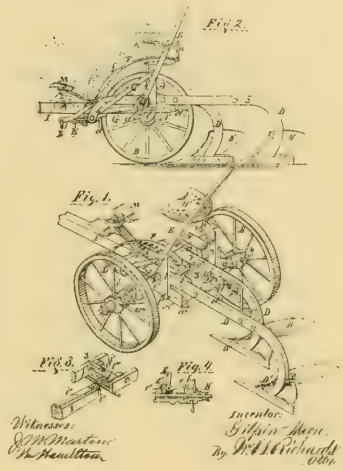
C. MYERS.
Gang-Plows.
No. 158,387. Patented Jan. 5, 1875.



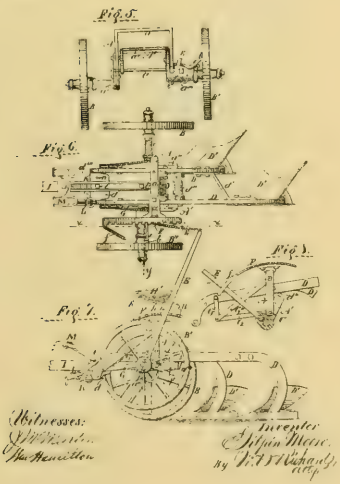
P. PRAWL & F. H. WEMPLE.
Wheel-Plows.
No. 158,735. Patented Jan 12, 1875.



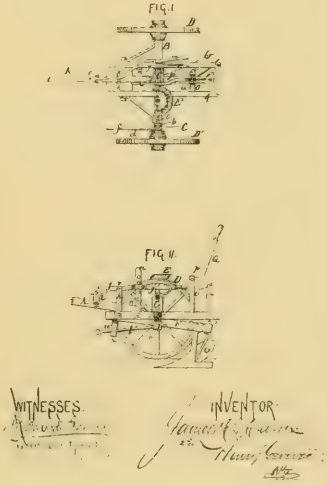
2 Sheets--Sheet 1
G. MOORE.
Gang-Plows.
No. 158,859. Patented Jan. 19, 1875.



2 Sheets--Sheet 2
G. MOORE.
Gang-Plows.
No. 158,859. Patented Jan. 19, 1875.



J. C. CARNS.
Sulky-Plows.
No. 159,642 Patented Feb. 9, 1875

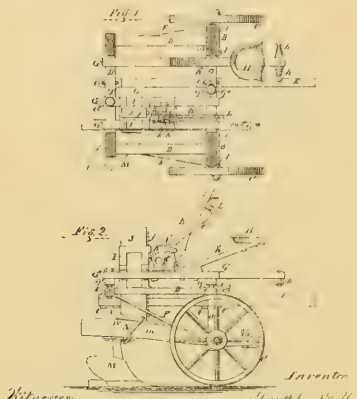


2 Sheets--Sheet 1

G. VAN WINKLE.

Sulky Attachment to Plows.

No. 159,779 Patented Feb. 16, 1875.

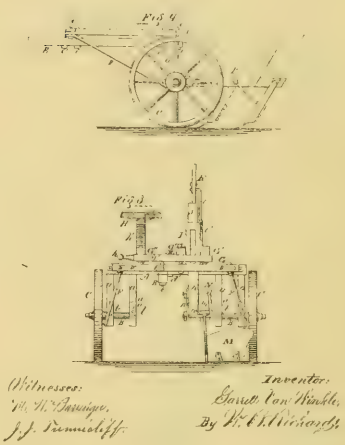


2 Sheets--Sheet 2.

G. VAN WINKLE.

Sulky Attachment to Plows.

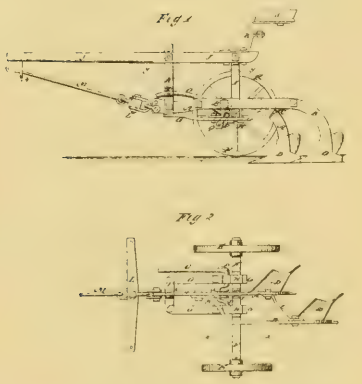
No. 159,779 Patented Feb. 16, 1875.



J. B. HUNTER.

Gang-Plow

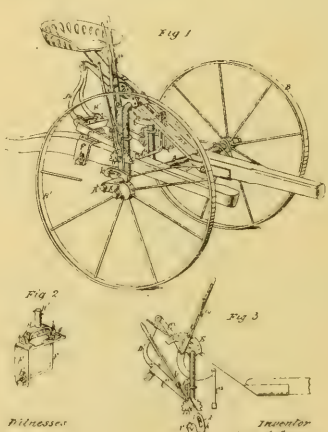
No 160,099 Patented Feb. 23, 1875



D. W. RALSTON.

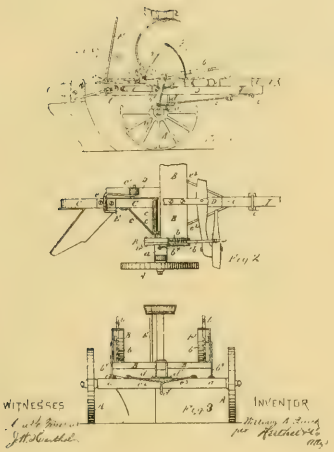
Plow-Carriage.

No 160,230 Patented Feb 23, 1875



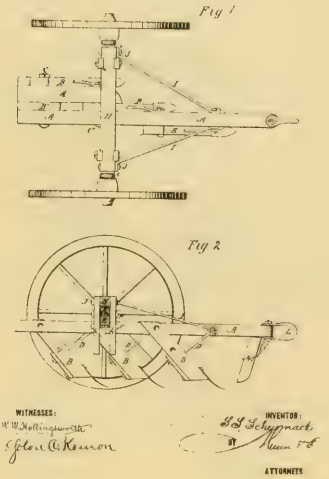
W. B. QUICK
Sulky-Plow.

No 160,260 Patented March 2, 1875



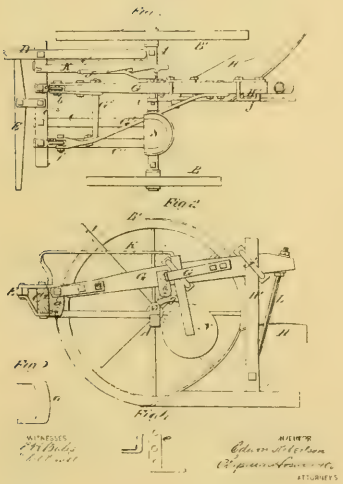
S. S. SCHEUMACK.
Gang-Plow.

No. 161,284 Patented March 23, 1875.



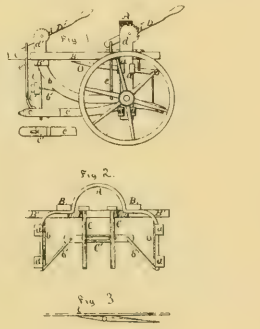
E. ROBERTSON.
Sulky-Plow.

No 161,440 Patented March 30, 1875

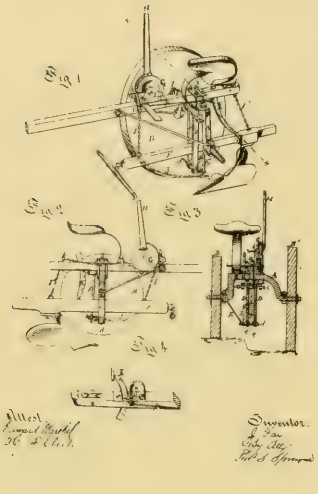


J. T. WELLS
Riding-Attachment for Plows.

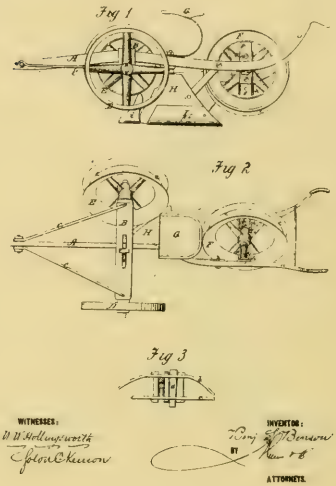
No 161,645 Patented April 6, 1875.



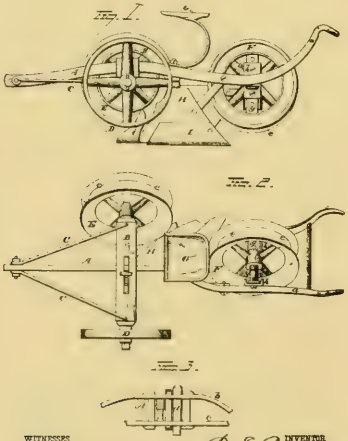
J. FAY.
Sulky-Plow.
No 161,770. Patented April 6, 1875.



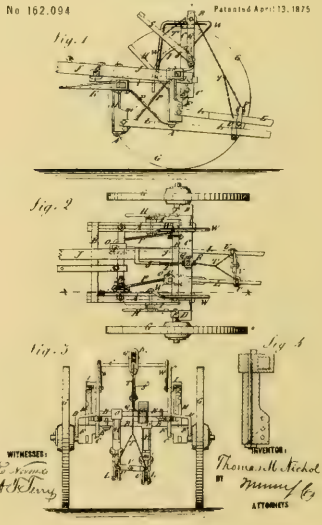
B. S. BENSON.
Plow.
No 162,015. Patented April 13, 1875.



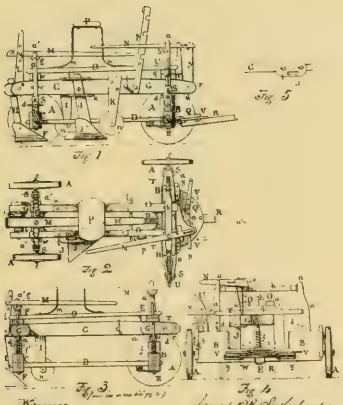
B. S. BENSON,
Assignor to H. A. Seymour, said Seymour assignor to T. B. Hall.
Plow.
No. 9,549. Reissued Feb. 1, 1881.



T. M. NICHOL.
Gang-Plow.
No 162,094 Patented April 13, 1875



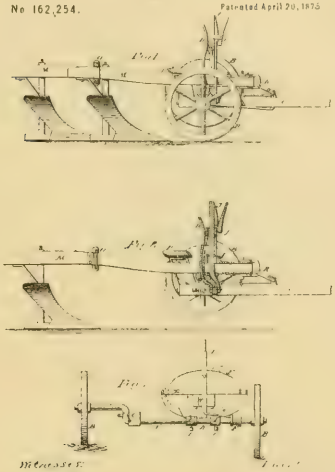
J. A. SUTHERLAND.
Gang-Plow.
No. 162,115 Patented April 19, 1875



Witnesses
Clarence Thurber
Geo. W. Wilcox

James A. Sutherland
by E. Thurber his atty.

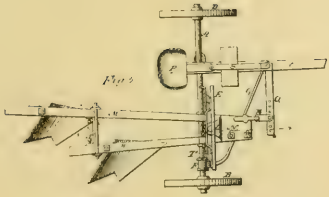
2 Sheets--Sheet 1
L. O. ROCKWOOD
Gang-Plows.
No 162,254. Patented April 20, 1875



Witnesses
Edward Rowe
John Weeks

Lorenzo O. Rockwood

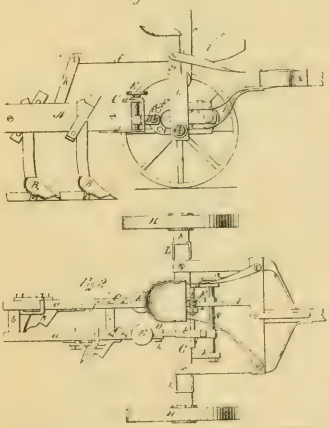
2 Sheets--Sheet 2.
L. O. ROCKWOOD
Gang-Plows.
No 162,254. Patented April 20, 1875.



Witnesses:
Edward Rowe
John Weeks

Inventor:
Lorenzo O. Rockwood

2 Sheets--Sheet 1
E. J. SPRAGUE
Gang-Plow.
No 162,709 Patented April 27, 1875

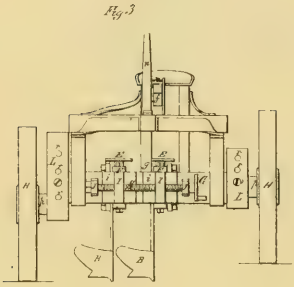


WITNESSES
Robert Cornell
Geo. E. Quick

2 Sheets--Sheet 2

E. J. SPRAGUE.
Gang-Plow.

No. 162,709. Patented April 27, 1875

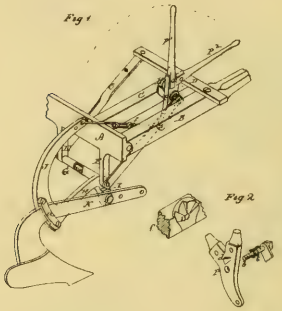


WITNESSES
Edd Everett
J. J. Chase

INVENTOR
Elbert J. Sprague
Chapman & Sommerville
ATTORNEYS

O. OSBORN.
Sulky-Plow.

No. 162,942 Patented May 4, 1875.



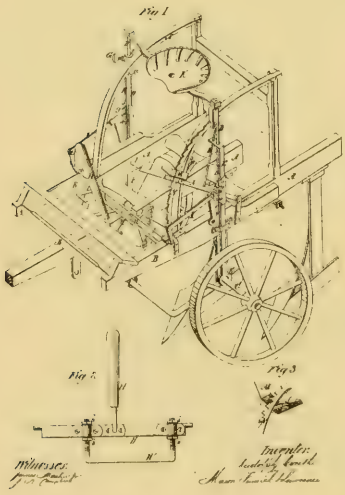
WITNESSES
Henry H. Miller
C. L. Everett

INVENTOR
Orman Osborn
per
Edmund Burke
ATTORNEYS

2 Sheets--Sheet 1

R. CORETH.
Plow-Carriage.

No. 163,464 Patented May 18, 1875.



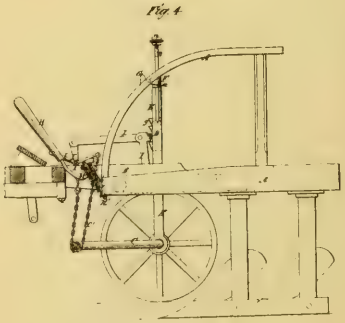
Witnesses:
James Rankin Jr.
J. H. Campbell.

Inventor:
Rudolph Coreth
Munn & Co
Attys

2 Sheets--Sheet 2.

R. CORETH.
Plow-Carriage.

No. 163,464. Patented May 18, 1875.



Witnesses:
James Rankin Jr.
J. H. Campbell.

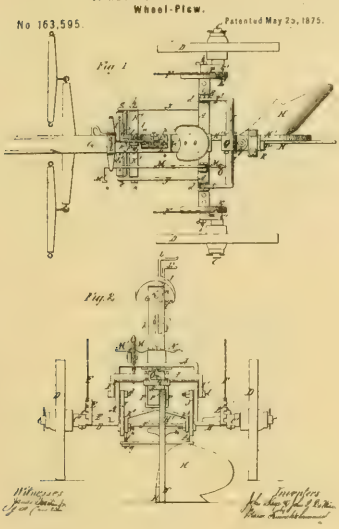
Inventor:
Rudolph Coreth
Munn & Co
Attys

2 Sheets--Sheet 1.

J. KEYS & J. R. DeMIER.

Wheel-Plow.

No 163,595. Patented May 25, 1875.

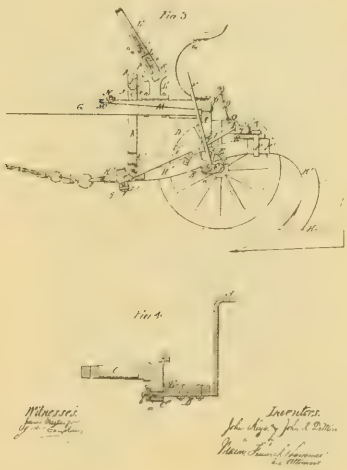


2 Sheets--Sheet 2

J. KEYS & J. R. DeMIER.

Wheel-Plow.

No. 163,595 Patented May 25, 1875.

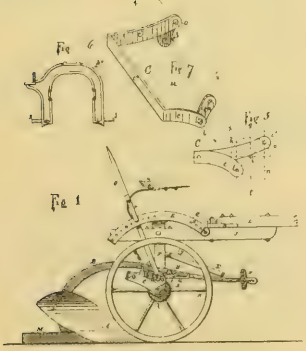


2 Sheets--Sheet 1

G. MOORE.

Sulky-Plows.

No. 164,929. Patented June 29, 1875.



Witnesses

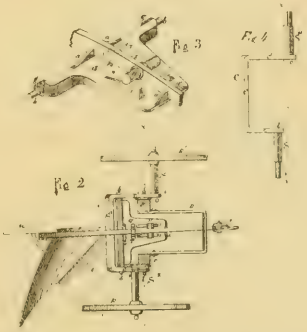
Inventor

2 Sheets--Sheet 2

G. MOORE.

Sulky-Plows.

No. 164,929 Patented June 29, 1875

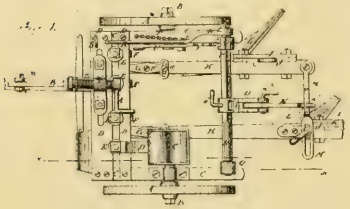


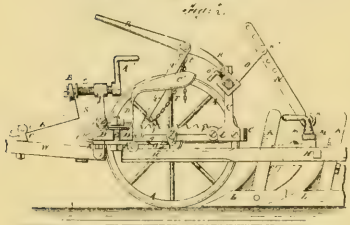
Witnesses

Inventor

H. OPP.
Gang-Plow.

No. 165,497. Patented July 13, 1875.





WITNESSES: Chas. Nida, A. F. Terry

INVENTOR: Henry Opp BY Munn & Co. ATTORNEYS

2 Sheets--Sheet 1

W. K. ALLEN.
Plow.

No. 165,652. Patented July 20, 1875.

Fig. 1

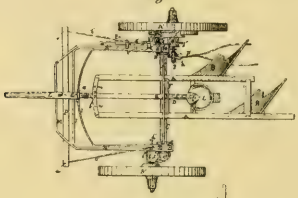
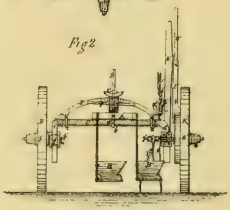


Fig. 2



Witnesses.
William Stevenson
J. F. Belfton

Inventor.
William K. Allen
By Fitch & Fitch
his Attys.

2 Sheets--Sheet 2.

W. K. ALLEN.
Plow.

No. 165,652. Patented July 20, 1875.

Fig. 3

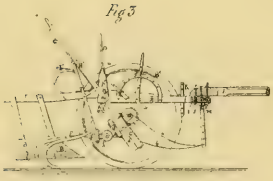


Fig. 4

Witnesses
William Stevenson
J. F. Belfton

Inventor
William K. Allen
By Fitch & Fitch
his Attys.

E. P. PULLIAM.
Gang-Plow.

No. 165,866. Patented July 20, 1875.

Fig. 1

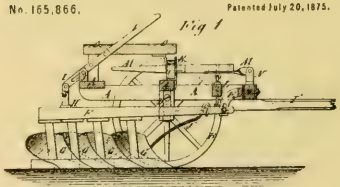


Fig. 2

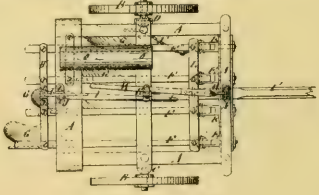
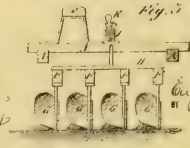


Fig. 3



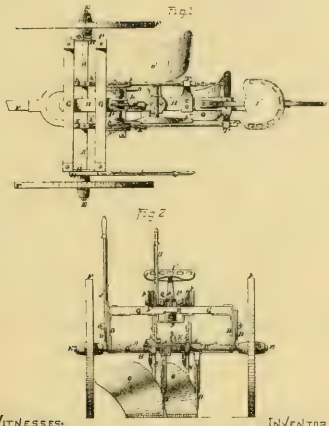
WITNESSES: C. Nida, A. F. Terry

INVENTOR: Eugene P. Pulliam BY Munn & Co. ATTORNEYS.

3 Sheets--Sheet 1.

E. A. BEERS.
Gang-Plow.

No. 166,063. Patented July 27, 1875.



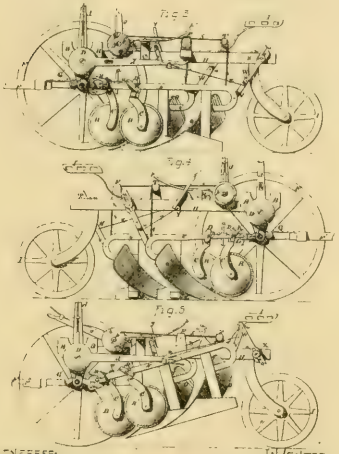
WITNESSES:
Jas. E. Hutchinson
John R. Young

INVENTOR.
Edwin A. Beers by
Prindle & Co. his Attys

3 Sheets--Sheet 2.

E. A. BEERS.
Gang-Plow.

No. 166,063. Patented July 27, 1875.



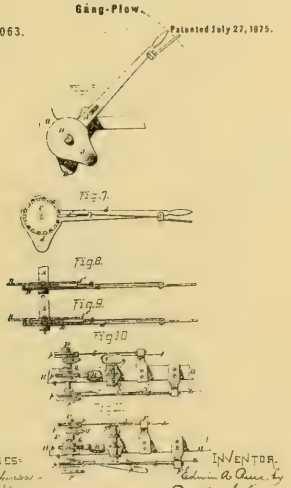
WITNESSES:
Jas. E. Hutchinson
John R. Young

INVENTOR.
Edwin A. Beers by
Prindle & Co. his Attys

3 Sheets--Sheet 3.

E. A. BEERS.
Gang-Plow.

No. 166,063. Patented July 27, 1875.

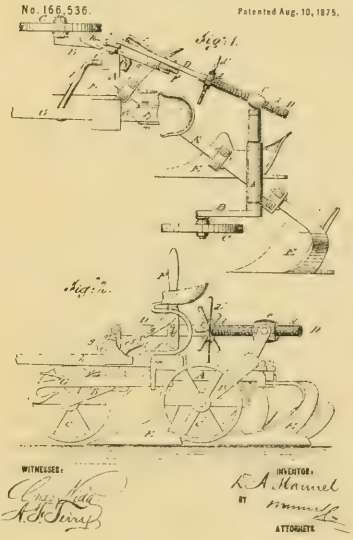


WITNESSES:
Jas. E. Hutchinson
John R. Young

INVENTOR.
Edwin A. Beers by
Prindle & Co. his Attys

D. A. MANUEL.
Gang-Plow.

No. 166,536. Patented Aug. 10, 1875.

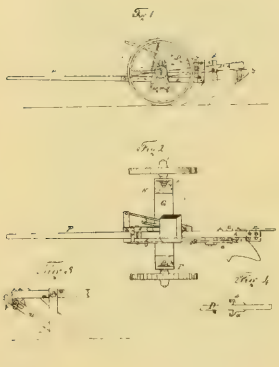


WITNESSES:
Geo. Hodge
R. H. Terry

INVENTOR:
D. A. Manuel
BY
Munn & Co.
ATTORNEYS.

R. R. FENNER.
Sulky-Plow.

No. 167,159. Patented Aug. 31, 1875.

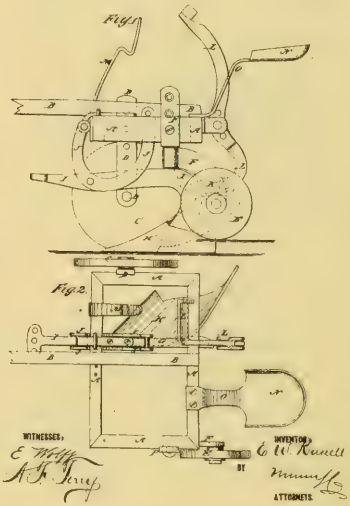


Witnesses
Benjamin F. Wile
Albert R. Patrick

Inventor
Robert R. Fenner
by C. S. Wickersham
Atty

E. W. RUSSELL.
Sulky-Plow.

No. 167,474. Patented Sept. 7, 1875.

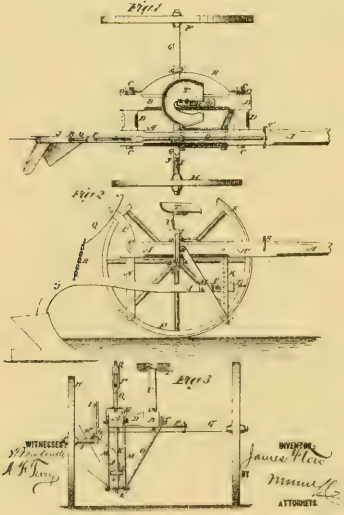


WITNESSES:
E. Wolff
A. F. Tony

INVENTOR
E. W. Russell
BY
Munn & Co.
ATTORNEYS.

J. FLOW.
Wheel-Plow.

No. 167,887 Patented Sept. 21, 1875.

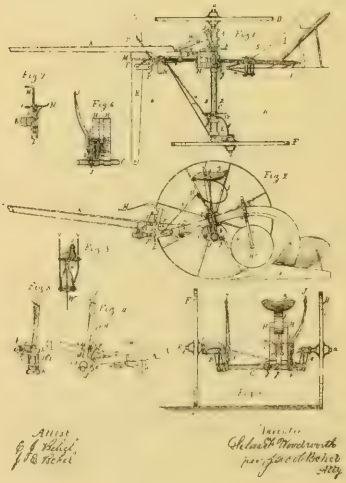


WITNESSES:
W. H. Hinckle
A. F. Tony

INVENTOR
James Flow
BY
Munn & Co.
ATTORNEYS.

S. F. WOODWORTH.
Sulky-Plow.

No. 168,595. Patented Oct. 11, 1875.

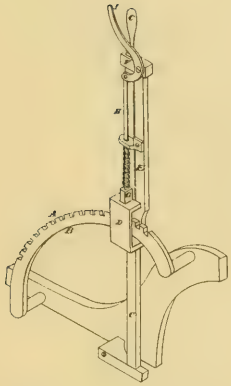


Witnesses
G. A. Wahl
J. B. Wahl

Inventor
Gilbert F. Woodworth
per James C. Becker
Atty

D. KENDIG.
Gang-Plow.

No. 168,646. Patented Oct. 11, 1875.

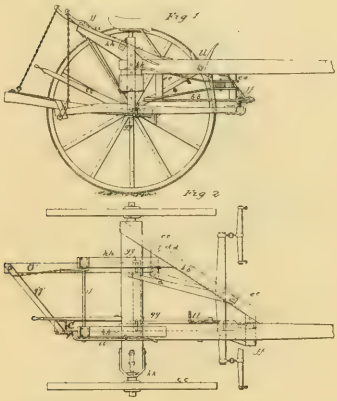


Witnesses
Geo. H. Strong
C. M. Richardson

Inventor
Daniel Kendig
by his Attys
Dewey & Co.

G. M. TODD.
Plow-Attachment.

No. 169,313. Patented Oct. 26, 1875.

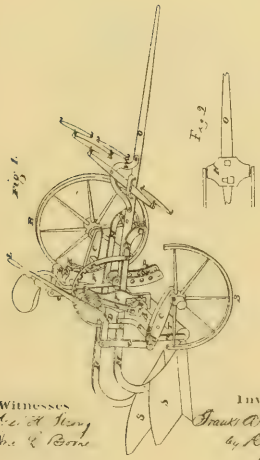


Witnesses
G. G. Gage.
John A. Myers

Inventor.
Geo. M. Todd.

F. A. HILL.
GANG-PLOW.

No. 170,262. Patented Nov. 23, 1875.

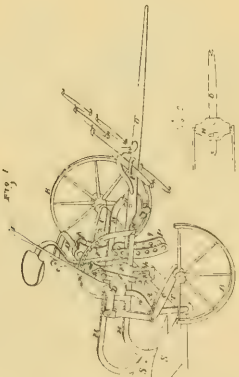


Witnesses
Geo. H. Strong
Jno. G. Bond

Inventor
Frank A. Hill
by Dewey & Co.
Attys

F. A. HILL.
GANG-PLOWS

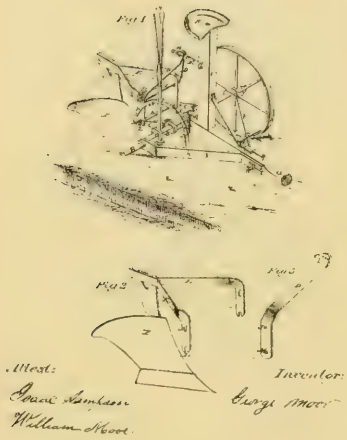
No. 7,204. Reissued July 4, 1876



Witnesses
Geo. H. Strong
Jno. G. Bond.

Inventor
Frank A. Hill
by Dewey & Co.
Attys.

G. MOOR.
SULKY-PLOW.
No. 170,487. Patented Nov. 30, 1875.



J. WORRELL.
PLOW.
No. 171,205. Patented Dec. 14, 1875.
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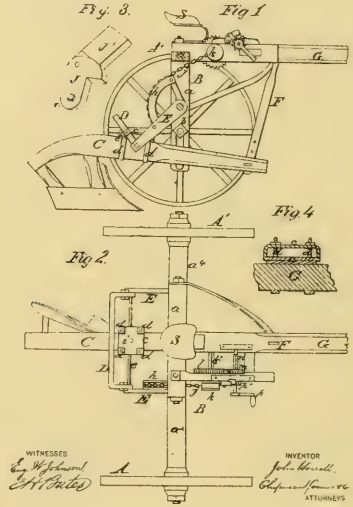
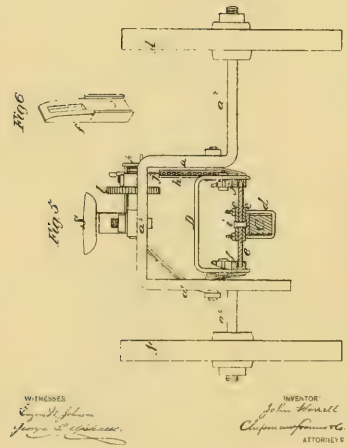
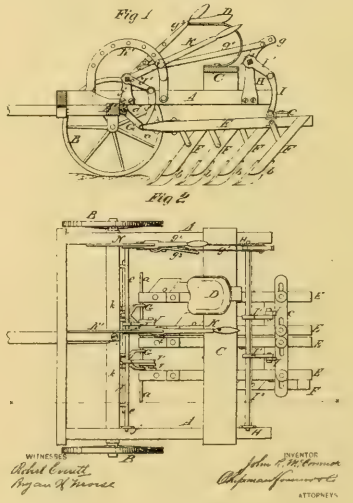


J. WORRELL.
PLOW.
No. 171,205. Patented Dec. 14, 1875.
2 Sheets—Sheet 2.

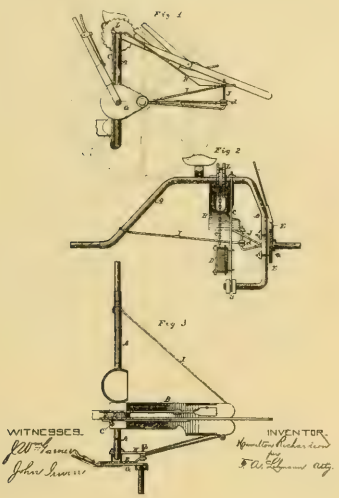


J. R. McCORMICK.
GANG-PLOW.
No. 171,299. Patented Dec. 21, 1875.



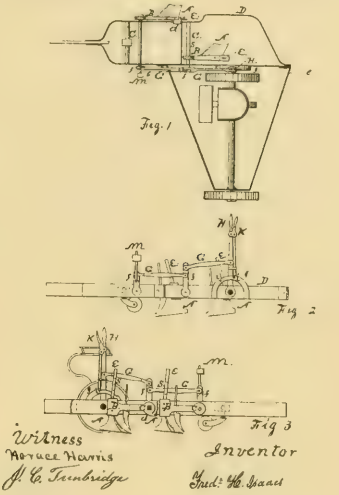
H. RICHARDSON.
SULKY-PLOW.

No. 171,427. Patented Dec. 21, 1875.



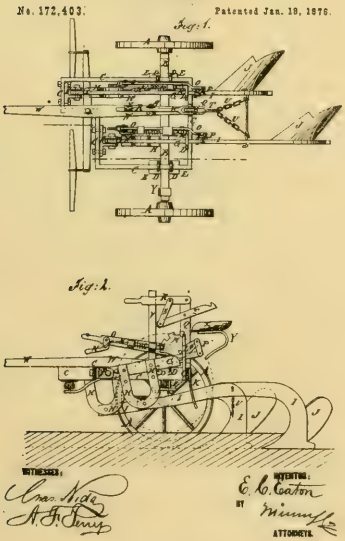
F. H. ISAACS.
SULKY-PLOW.

No. 172,025. Patented Jan. 11, 1876.



E. C. EATON.
GANG-PLOW.

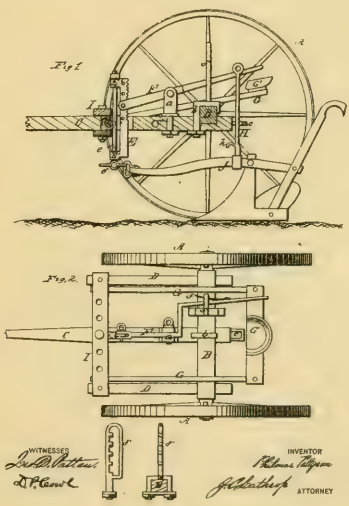
No. 172,403. Patented Jan. 18, 1876.



2 Sheets—Sheet 1.

P. PATTYSON
SULKY-PLOW.

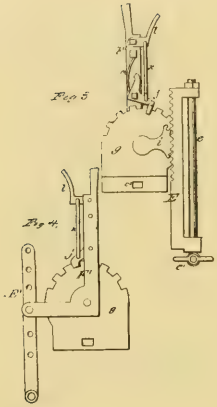
No. 172,825. Patented Feb. 1, 1876.



2 Sheets—Sheet 2.

P. PATTYSON.
SULKY-PLOW.

No. 172,825. Patented Feb. 1, 1876.

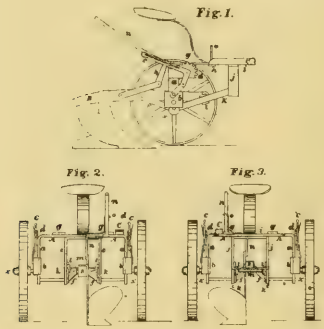


WITNESSES
Geo. D. Pattison
D. P. Cook

INVENTOR
Philemon Pattyson
G. H. Lothrop
ATTORNEY

M. SATTLEY.
WHEEL-PLOW

No. 173,138 Patented Feb. 8, 1876.



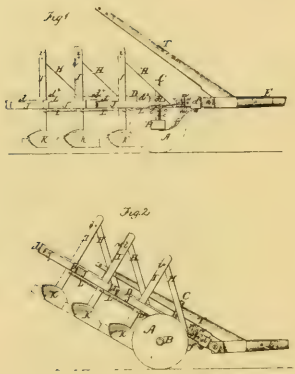
WITNESSES:
Jno. W. Lyon
Lewis P. Graham

INVENTOR
Marshall Sattley
per Chas. P. Horsman
Atty.

2 Sheets—Sheet 1

S. BRYAN.
GANG-PLOW

No. 173,264. Patented Feb. 8, 1876.



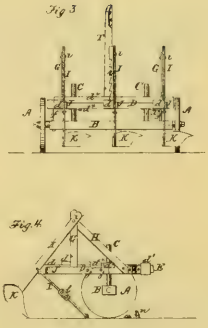
WITNESSES
H. C. Church
F. H. Young

INVENTOR
Saml. Bryan
By Wm. Vanderpoel
His Attorneys

2 Sheets—Sheet 2.

S. BRYAN.
GANG-PLOW.

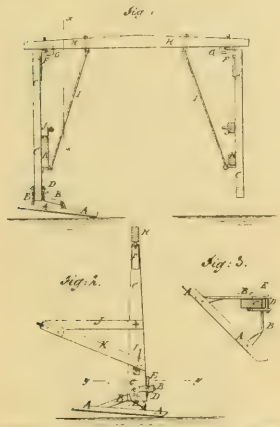
No. 173,264. Patented Feb. 8, 1876.



WITNESSES
H. C. Church
F. H. Young

INVENTOR
Saml. Bryan
By Wm. Vanderpoel
His Attorneys

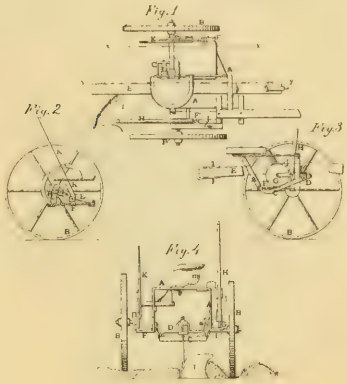
E. SLOSSON.
SCRAPER-ATTACHMENT FOR PLOWS.
No. 173,565. Patented Feb. 15, 1876.



WITNESSES:
Chas. Nor
Alex. T. Roberts

INVENTOR:
E. Slosson
BY
ATTORNEYS.

W. J. SLAUGHTER.
SULKY-PLOW
No. 173,679. Patented Feb. 15, 1876.



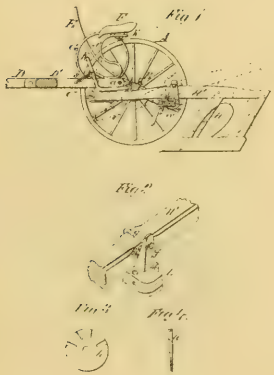
WITNESSES
Ermell Crowell
William Jackson

By

William J. Slaughter
INVENTOR
C. M. Parks
Attorney

3 Sheets—Sheet 1.

S. T. ADAMS.
WHEEL-PLOW.
No. 174,343. Patented March 7, 1876

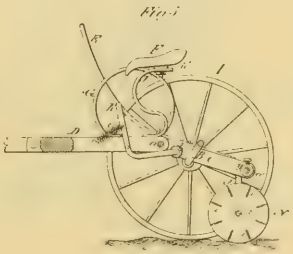


WITNESSES
Ermell Crowell
George W. Rimes

INVENTOR
Samuel T. Adams
Munn & Co.
ATTORNEYS

3 Sheets—Sheet 2.

S. T. ADAMS.
WHEEL-PLOW.
No. 174,343. Patented March 7, 1876.



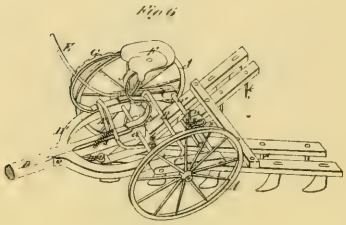
WITNESSES
Ermell Crowell
George W. Rimes

INVENTOR
Samuel T. Adams
Munn & Co.
ATTORNEYS

3 Sheets—Sheet 3.

S. T. ADAMS.
WHEEL-PLOW.

No. 174,343. Patented March 7, 1876.



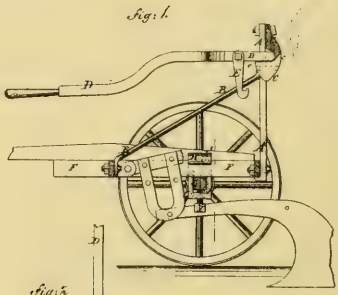
WITNESSES

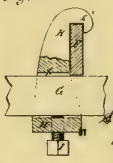
INVENTOR.

ATTORNEYS

E. C. EATON.
GANG-PLOWS.

No. 174,416. Patented March 7, 1876.





WITNESSES:

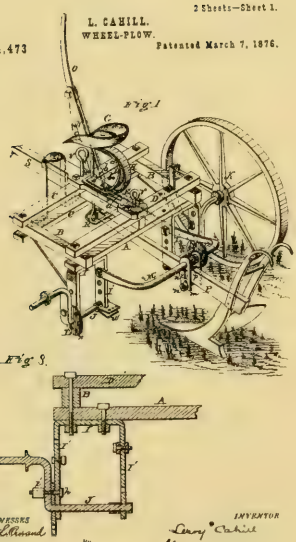
INVENTOR:

ATTORNEYS.

2 Sheets—Sheet 1.

L. CAHILL.
WHEEL-PLOW.

No. 174,473 Patented March 7, 1876.



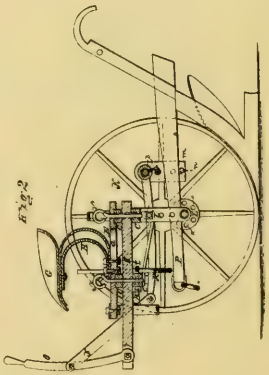
WITNESSES

INVENTOR

2 Sheets—Sheet 2.

L. CAHILL.
WHEEL-PLOW.

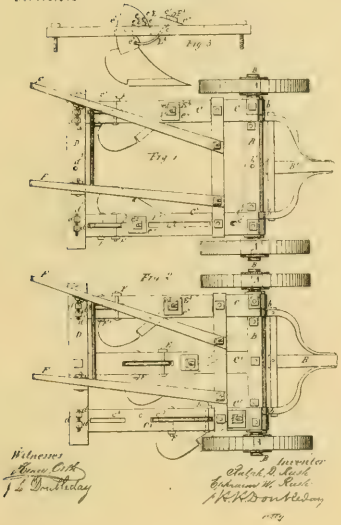
No. 174,473. Patented March 7, 1876.



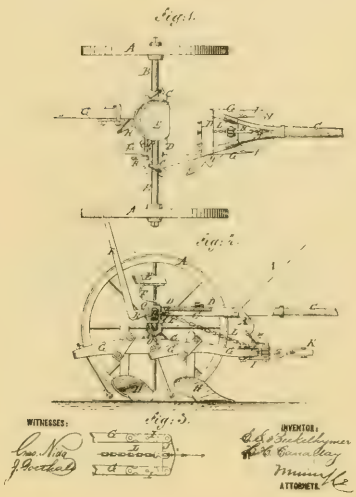
WITNESSES

INVENTOR

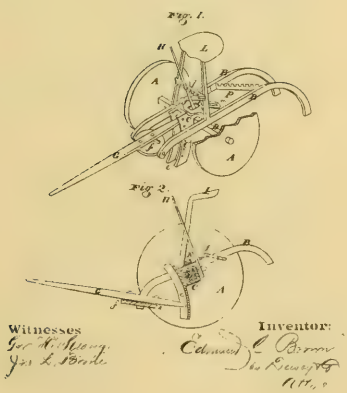
R. D. & E. W. RUSH.
GANG-PLOW.
No. 175,879. Patented April 11, 1876.



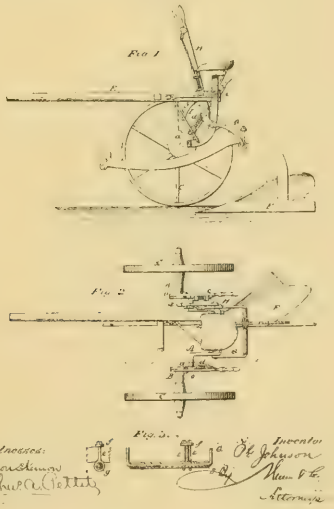
E. S. BECKELHYMER & H. H. CANADAY.
GANG-PLOW
No. 175,907. Patented April 11, 1876.



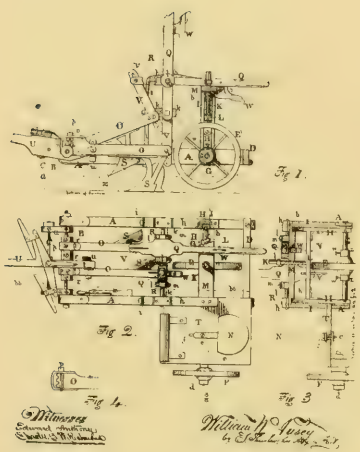
E. C. BROWN.
WHEEL-PLOW.
No. 175,921. Patented April 11, 1876



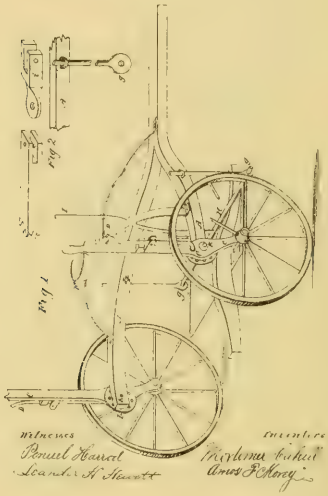
P. G. JOHNSON.
PLOW.
No. 176,001. Patented April 11, 1876.



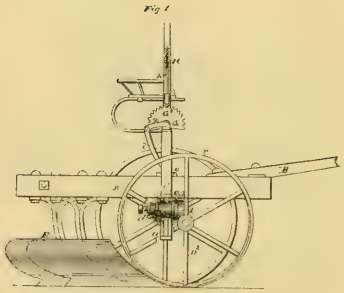
W. W. PUSEY.
GANG-PLOW.
No. 176,350. Patented April 18, 1876.



M. CAHILL & A. F. MOREY.
SULKY-PLOW.
No. 176,595. Patented April 25, 1876.



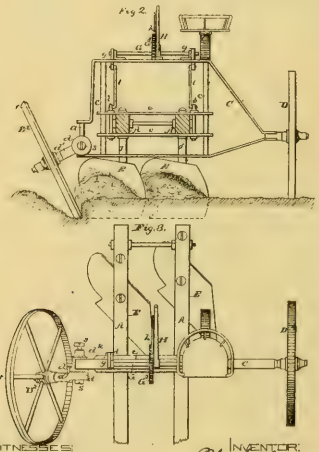
3 Sheets—Sheet 1.
W. L. CASADAY.
SULKY-PLOW.
No. 176,836 Patented May 2, 1876.



WITNESSES:
Jos. S. Duhamel
Thomas Byrne.

INVENTOR
Wm. L. Casaday
PER
A. C. Abbot.
ATTORNEY

3 Sheets—Sheet 2.
W. L. CASADAY.
SULKY-PLOW.
No. 176,836 Patented May 2, 1876.



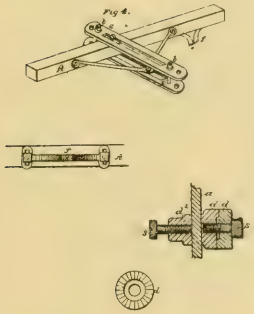
WITNESSES:
Jos. S. Duhamel
Thomas Byrne.

INVENTOR:
Wm. L. Casaday
PER
A. C. Abbot.
ATTORNEY

3 Sheets—Sheet 3.

W. L. CASADAY.
SULKY-PLOW.

No. 176,836. Patented May 2, 1876.



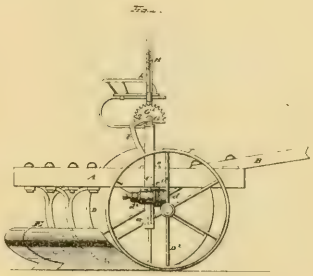
WITNESSES:
Jas. F. Duhamel
Thomas Byrne.

INVENTOR
Wm. L. Casaday.
PER
H. A. Abbot.
ATTORNEY.

3 Sheets—Sheet 1.

W. L. CASADAY.
Sulky-Plow.

No. 7,943. Reissued Nov. 13, 1877.



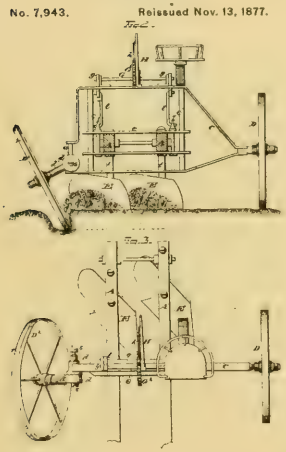
WITNESSES
Ch. S. Nottingham.
A. T. Bright

INVENTOR
Wm. L. Casaday
By Leggett & Leggett
ATTORNEYS

3 Sheets—Sheet 2.

W. L. CASADAY.
Sulky-Plow.

No. 7,943. Reissued Nov. 13, 1877.



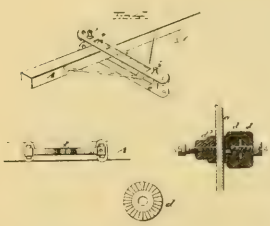
WITNESSES
Ch. S. Nottingham
A. T. Bright

INVENTOR
Wm. L. Casaday.
By Leggett & Leggett
ATTORNEYS

3 Sheets—Sheet 3.

W. L. CASADAY
Sulky-Plow.

No. 7,943. Reissued Nov. 13, 1877.



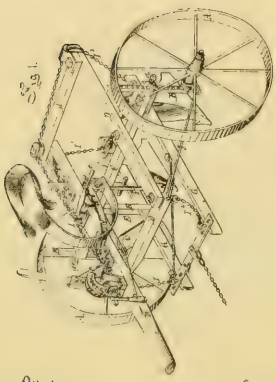
WITNESSES
Ch. S. Nottingham
A. T. Bright

INVENTOR
Wm. L. Casaday
By Leggett & Leggett
ATTORNEYS

2 Sheets—Sheet 1.

J. FAY.
SULKY-PLOW.

No. 176,945. Patented May 2, 1876.



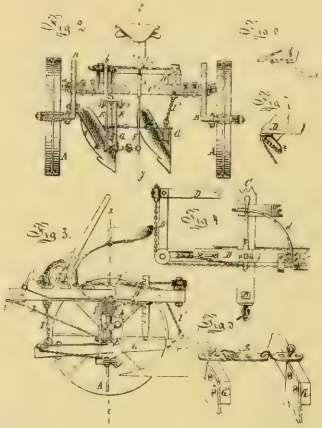
Witnesses:
Edward Burdell
M. F. Ebert

Inventor:
John Fay
By Atty
Chas. S. Sprague

2 Sheets—Sheet 2

J. FAY.
SULKY-PLOW

No. 176,945 Patented May 2, 1876.

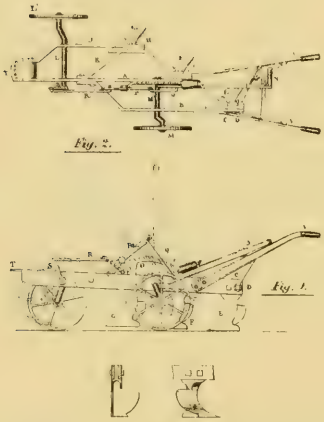


Witnesses:
Edward Burdell
M. F. Ebert

Inventor:
John Fay
By Atty
Chas. S. Sprague

T. RICHARDSON & M. McINNES.
GANG-PLOW.

No. 177,078 Patented May 5, 1876.

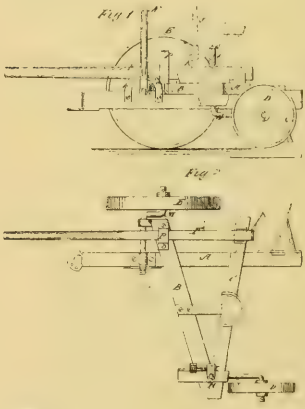


Witnesses.
Harry Warren
William Sandford

Inventors.
James Richardson
Malcolm McInnes
by Richardson & Co

W. A. RUDDICK.
WHEEL-PLOW

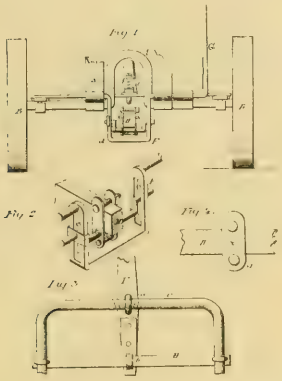
No. 177,562 Patented May 16, 1876.



WITNESSES:
E. Wolff
John Bothals

INVENTOR:
W. A. Ruddick
BY
Munn & Co
ATTORNEYS.

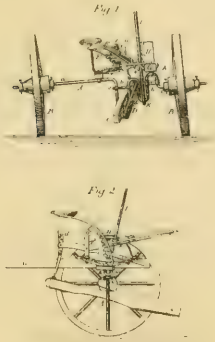
J. WARWICK.
SULKY-PLOW.
No. 177,975. Patented May 30, 1876.



Witnesses
John H. Brand
Frank Hoff

Inventor
Joseph Warwick
By Munn & Co
Atty

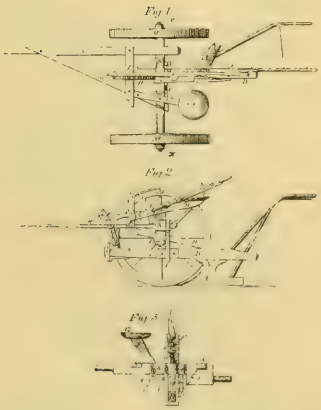
W. HENRY.
SULKY-PLOW.
No. 178,523. Patented June 13, 1876.



Witnesses
Wm. Raggen
C. A. Brown

Inventor
William Henry
by Louis Bolmer
his Atty

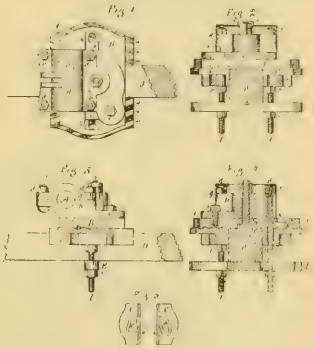
W. HENRY.
SULKY-PLOW.
No. 178,524. Patented June 13, 1876.



WITNESSES
C. A. Brown
Wm. Raggen

INVENTOR.
William Henry
by Louis Bolmer
ATTORNEY.

J. B. RALSTON.
SULKY-PLOW.
No. 178,558. Patented June 13, 1876.



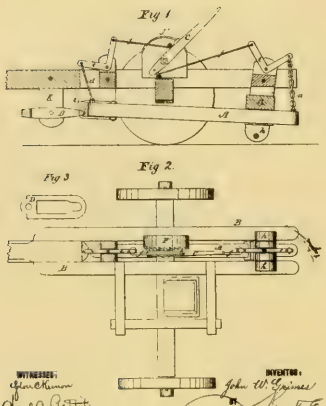
Witnesses
J. E. Bobst
A. O. Bobst

Inventor
John B. Ralston
by Jacob Bobst
Atty

J. W. GRIMES.

SULKY-PLOW

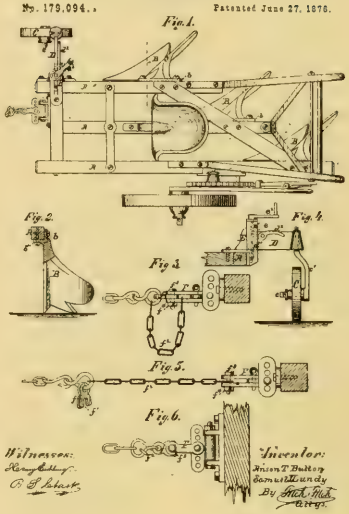
No. 179,014. Patented June 20, 1876



A. T. BUTTON & S. J. LUNDY.

GANG-PLOW.

No. 179,094. Patented June 27, 1876.

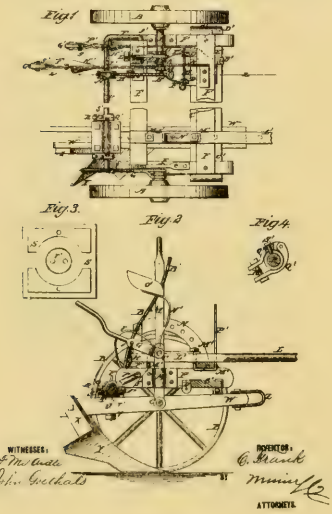


2 Sheets—Sheet 1

C. FRANK.

COMBINED PLOW AND CULTIVATOR.

No. 179,291. Patented June 27, 1876.

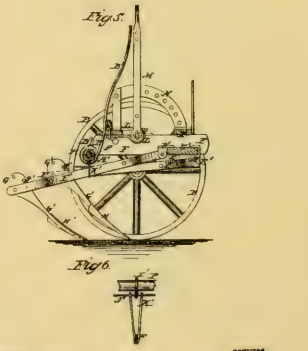


2 Sheets—Sheet 2.

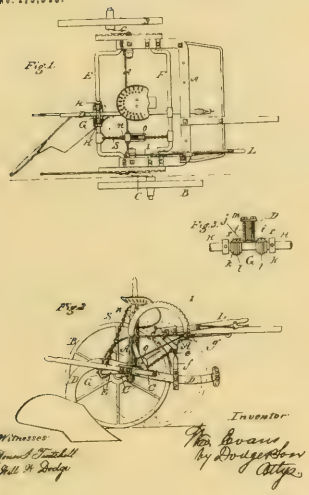
C. FRANK.

COMBINED PLOW AND CULTIVATOR.

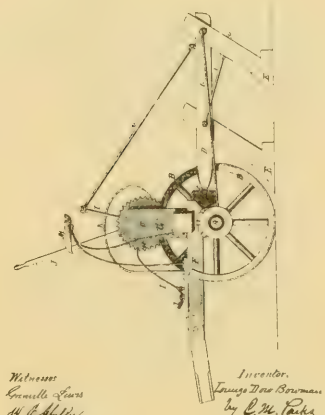
No. 179,291. Patented June 27, 1876.



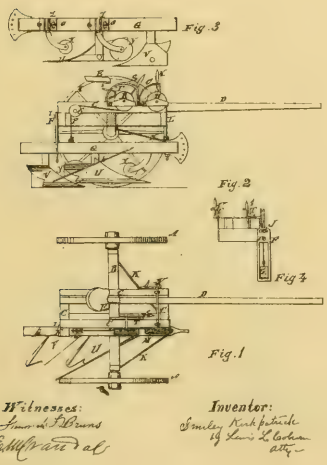
W. EVANS.
WHEEL PLOW
No. 179,545. Patented July 4, 1876.



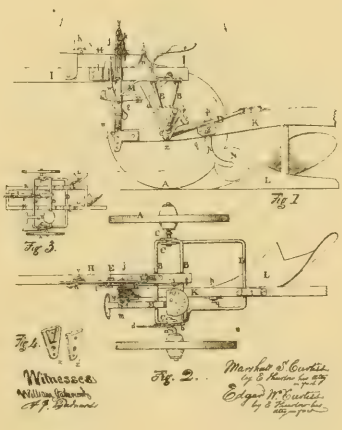
L. D. BOWMAN.
SULKY-PLOW.
No. 179,761. Patented July 11, 1876.



S. KIRKPATRICK.
GANG-PLOWS.
No. 180,137. Patented July 25, 1876.

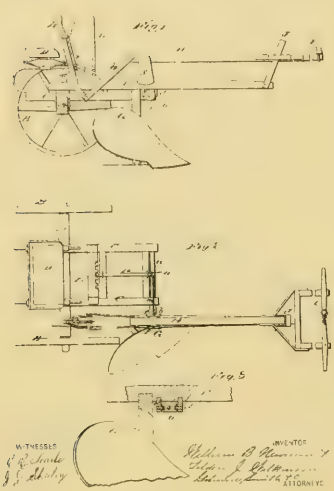


M. S. & E. W. CURTISS.
GANG-PLOW.
No. 180,464. Patented Aug. 1, 1876.



W. B. NEWMAN & T. J. WILKINSON.
PLOW.

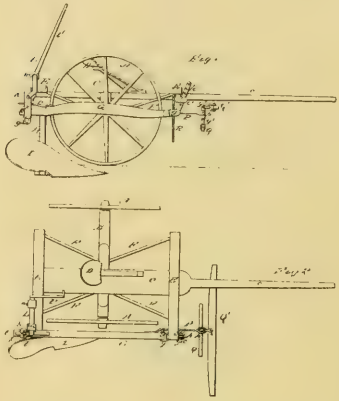
No. 180,624. Patented Aug. 1, 1876



WITNESSES
INVENTOR
ATTORNEYS

J. M. PAYNE.
SULKY-PLOW.

No. 181,200. Patented Aug. 15, 1876.

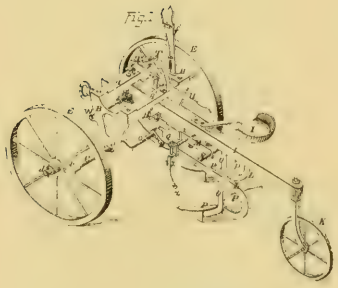


WITNESSES
INVENTOR
ATTORNEYS

5 Sheets—Sheet 1.

E. A. BEERS.
GANG PLOW.

No. 181,901. Patented Sept. 5, 1876.

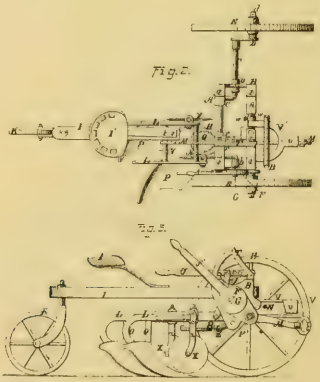


WITNESSES.
INVENTOR.

5 Sheets—Sheet 2.

E. A. BEERS.
GANG PLOW.

No. 181,901. Patented Sept. 5, 1876.



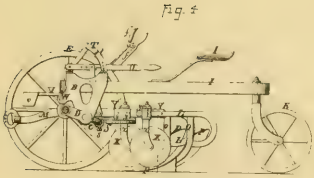
WITNESSES.
INVENTOR.

5 Sheets—Sheet 3

E. A. BEERS.
GANG PLOW.

No. 181,901. Patented Sept. 5, 1876

Fig. 4



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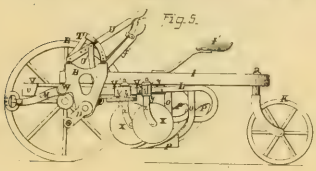


WITNESSES:
Jas. B. Hutchinson
John R. Young

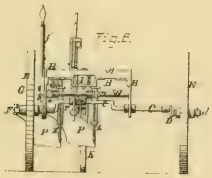
INVENTOR.
E. A. Beers, by
Prindle & Co. Ins. Atty.

5 Sheets—Sheet 4

E. A. BEERS.
GANG PLOW.

No. 181,901. Patented Sept. 5, 1876

Fig. 6.



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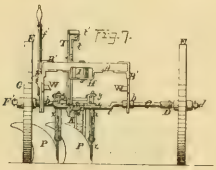


WITNESSES:
Jas. B. Hutchinson
John R. Young

INVENTOR.
E. A. Beers, by
Prindle & Co. Ins. Atty.

5 Sheets—Sheet 5.

E. A. BEERS.
GANG PLOW.

No. 181,901. Patented Sept. 5, 1876.

Fig. 8.

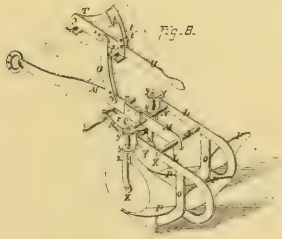
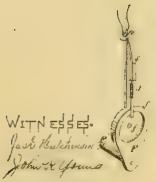


Fig. 9.



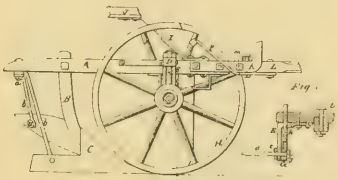
WITNESSES:
Jas. B. Hutchinson
John R. Young

INVENTOR.
E. A. Beers, by
Prindle & Co. Ins. Atty.

W. A. VANARSDELL.
SULKY-PLOW.

No. 182,248. Patented Sept. 12 1876

Fig. 1



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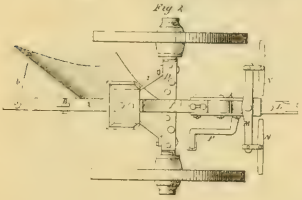
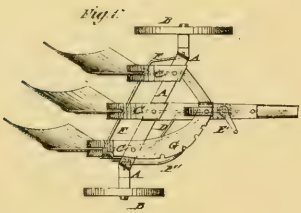


WITNESSES
Henry N. Marble, for
C. L. Guest.

INVENTOR
Wm. A. Vanarsdell
Alexander Mabon
Attorney

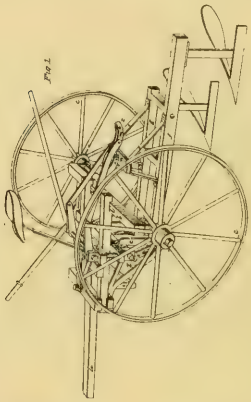
T. B. FAGAN.
SULKY GANG-PLOW.
No. 182,569. Patented Sept. 26, 1876.



WITNESSES:
Chas. M. Hardie
John Gothals

INVENTOR:
T. B. Fagan
BY
Munn & Co
ATTORNEYS.

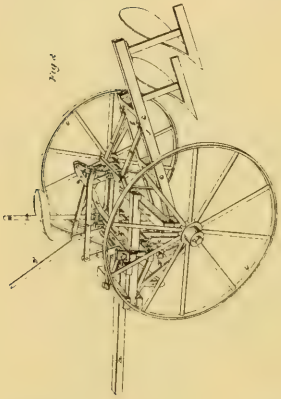
4 Sheets—Sheet 1.
E. D. & O. B. REYNOLDS.
WHEEL-PLOWS.
No. 182,735. Patented Sept. 26, 1876.



Witnesses:
C. Clarence Poole
David J. Weems

Inventor:
Edmund D. Reynolds
Oliver Bradford Reynolds
per attorney
A. H. Evans & Co.

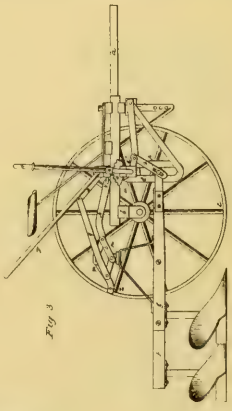
4 Sheets—Sheet 2.
E. D. & O. B. REYNOLDS.
WHEEL-PLOWS.
No. 182,735. Patented Sept. 26, 1876.



Witnesses
C. Clarence Poole
David J. Weems

Inventor
Edmund D. Reynolds
Oliver Bradford Reynolds
per attorney
A. H. Evans & Co.

4 Sheets—Sheet 3.
E. D. & O. B. REYNOLDS.
WHEEL-PLOWS.
No. 182,735. Patented Sept. 26, 1876.



Witnesses
C. Clarence Poole
David J. Weems

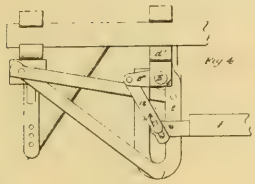
Inventor
Edmund D. Reynolds
Oliver Bradford Reynolds
per attorney
A. H. Evans & Co.

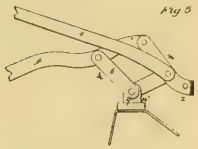
4 Sheets—Sheet 4.

E. D. & O. B. REYNOLDS.

WHEEL-PLOWS.

No. 182,735. Patented Sept. 25, 1876.





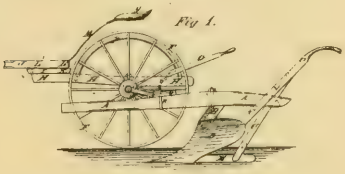
Witnesses
C. Clarence Poole
Louis G. Weme

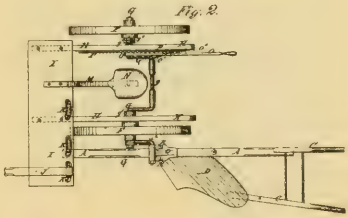
Inventor
Edmund D. Reynolds
Oliver Burford Reynolds
per attorney
Arthur Evans Wm

E. T. HUNTER.

WHEEL PLOW

No. 182,829. Patented Oct. 3, 1876.





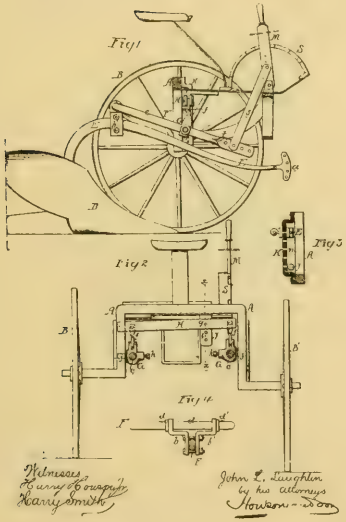
WITNESSES:
H. A. Ridgwick
John Gorthals

INVENTOR:
E. T. Hunter
BY Munn & Co
ATTORNEYS.

J. L. LAUGHLIN.

SULKY-PLOW.

No. 183,178. Patented Oct. 10, 1876.



Witnesses
Harry Howson
Harry Smith

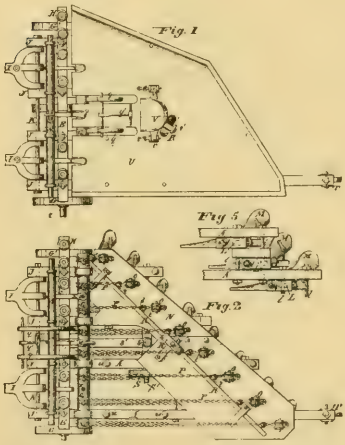
John L. Laughlin
by his Attorneys
Howson & Sons

2 Sheets—Sheet 1.

M. E. RONAT.

PLOW.

No. 183,213. Patented Oct. 10, 1876.



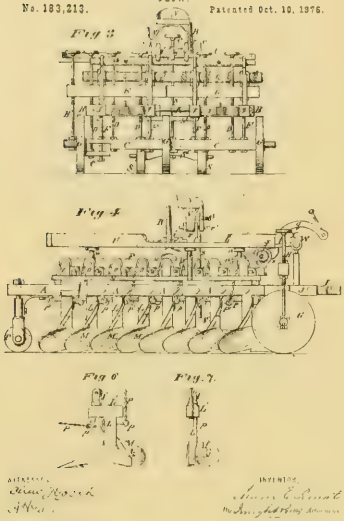
WITNESSES:
Chas. J. Good
[illegible]

INVENTOR
Marc E. Ronat
By Knight Bros
[illegible]

2 Sheets—Sheet 2.

M. E. RONAT.
PLOW.

No. 183,213. Patented Oct. 10, 1876.



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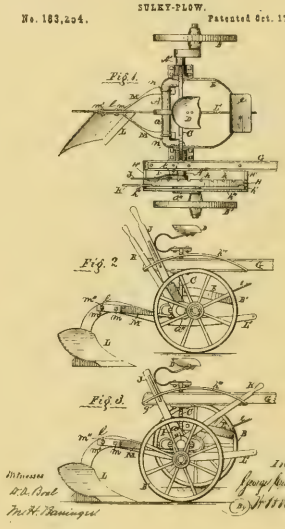
G. CURRENDALL.
SULKY-PLOW.

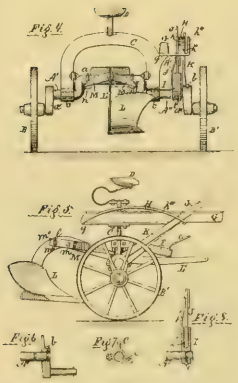
No. 183,254. Patented Oct. 17, 1876.



2 Sheets—Sheet 2.

G. CURRENDALL.
SULKY-PLOW.

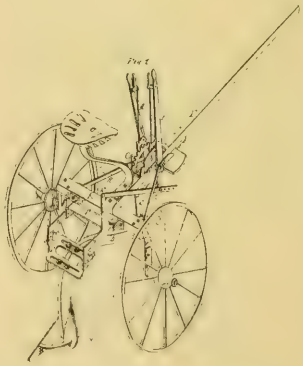
No. 183,254. Patented Oct. 17, 1876.



2 Sheets—Sheet 1.

S. F. WELCH.
WHEEL-PLOW.

No. 183,610. Patented Oct. 24, 1876.



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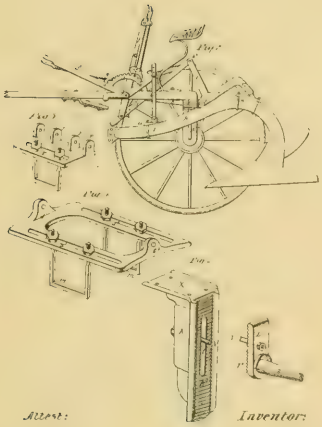
S. F. WEICH.
WHEEL-PLOW.

No. 183,610. Patented Oct. 24, 1876.



Attest:
R. F. Shine
Edwin F. Lewis.

Inventor:
S. Frank Weich.

2 Sheets—Sheet 1.

L. CHAPMAN.
GANG-PLOW.

No. 183,794. Patented Oct. 31, 1876.

Witnesses
John Pillott
R. H. F. Gaylord

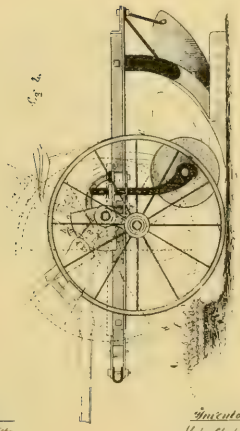
Fig. 5

Inventor
Lyle Chapman
per W. S. Simonds
Atty.

2 Sheets—Sheet 2.

L. CHAPMAN.
GANG-PLOW.

No. 183,794. Patented Oct. 31, 1876.



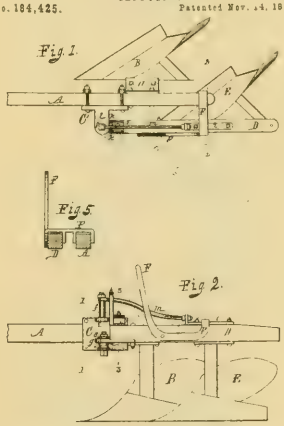
Witnesses
John Pillott
R. H. F. Gaylord

Inventor
Lyle Chapman
per W. S. Simonds
Atty.

2 Sheets—Sheet 1.

J. B. RALSTON.
GANG-PLOW.

No. 184,425. Patented Nov. 14, 1876.



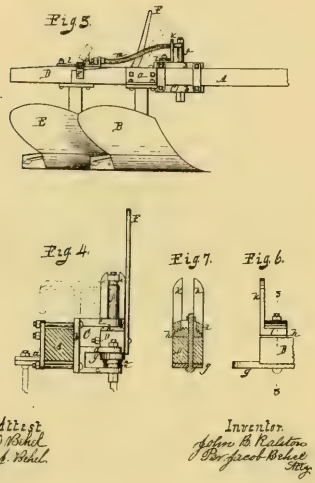
Attest
L. O. Nickel
C. J. Kirch

Inventor.
John B. Ralston
per Jos. C. Bebel
Atty.

2 Sheets—Sheet 2.

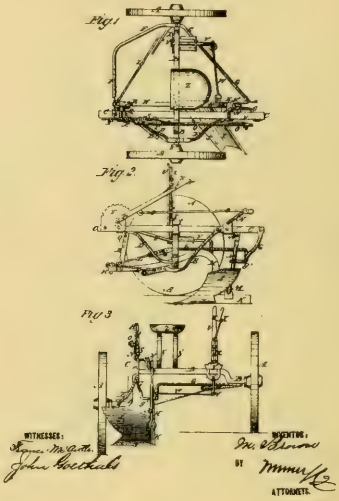
J. B. RALSTON.
DAMO-PLOWS.

No. 184,425. Patented Nov. 14, 1876.



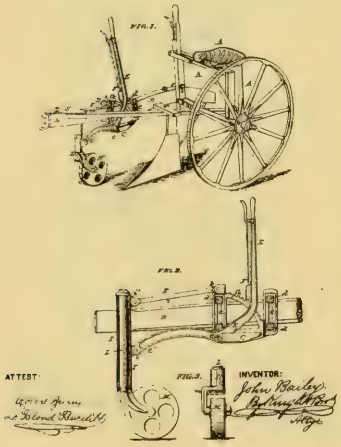
M. BROWN.
SULKY-PLOW.

No. 184,499. Patented Nov. 21, 1876.



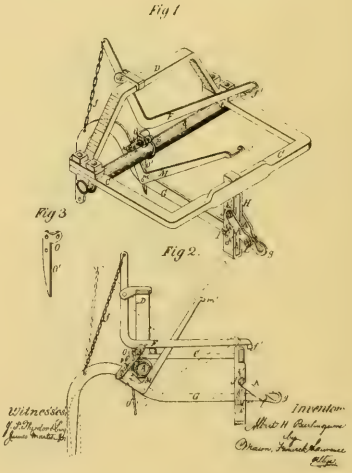
J. BAILEY.
RIDING ATTACHMENT FOR PLOWS.

No. 184,570. Patented Nov. 21, 1876.

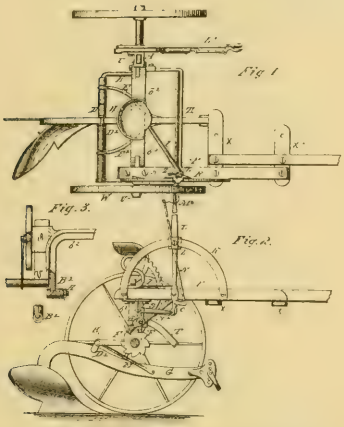


A. H. BURLINGAME.
WHEEL PLOWS.

No. 184,583. Patented Nov. 21, 1876.



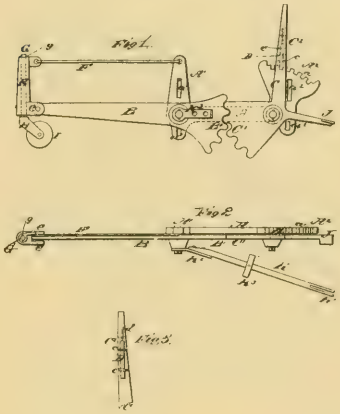
I. R. GILBERT.
WHEEL-PLOW.
No. 184,610. Patented Nov. 21, 1876.



WITNESSES.
P. C. Dieterich
H. C. Dyer Arthur

INVENTOR
I. R. Gilbert
per
D. T. Alexander
ATTORNEY

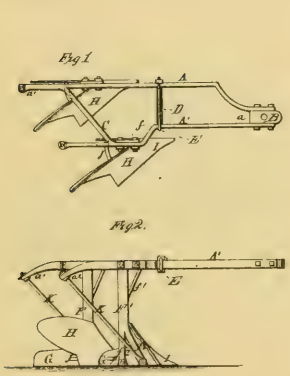
G. S. KING.
PLOW ATTACHMENTS.
No. 184 629. Patented Nov. 21, 1876.



WITNESSES
C. H. Betts
Geo. E. Upham

INVENTOR
George S. King
Gilmore & Smith
ATTORNEYS.

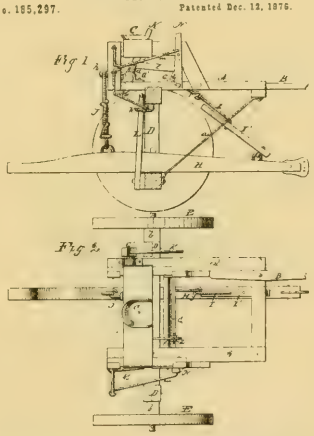
W. M. RICHARDSON.
GANG-PLOW.
No. 184,665. Patented Nov. 21, 1876.



WITNESSES
Robert Gratz
Geo. E. Upham

INVENTOR.
William M. Richardson.
Gilmore, Smith & Co.
ATTORNEYS

2 Sheets—Sheet 1.
H. H. COLVIN & I. R. JOHNSON.
PLOWS.
No. 185,297. Patented Dec. 12, 1876.



WITNESSES
A. Shorey Jenkins
Frank M. Ormond

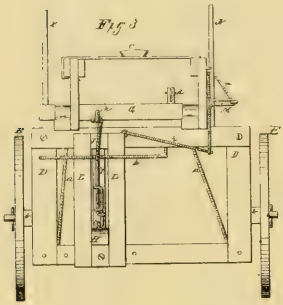
INVENTOR
H. H. Colvin and
Isaac R. Johnson
by Chas. A. Richardson
ATTORNEYS

2 Sheets—Sheet 2

H. H. COLVIN & I. R. JOHNSON.

PLOWS.

No. 185,297. Patented Dec. 12, 1876.



WITNESSES

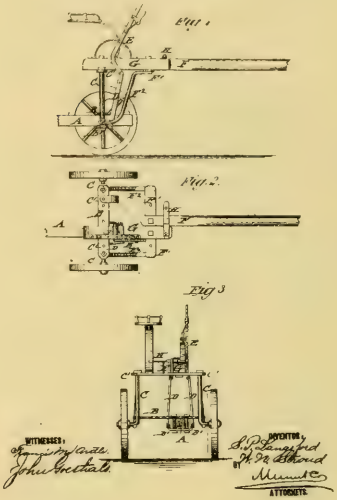
INVENTOR

ATTORNEYS

S. P. LANGSFORD & W. N. STROUD.

SULKY ATTACHMENT FOR PLOWS.

No. 185,338. Patented Dec. 12, 1876.

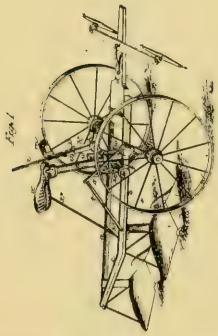


2 Sheets—Sheet 1.

L. CHAPMAN.

GANG-PLOW.

No. 185,493. Patented Dec. 19, 1876.



Witnesses
John Pollard
John Henry Brockleby

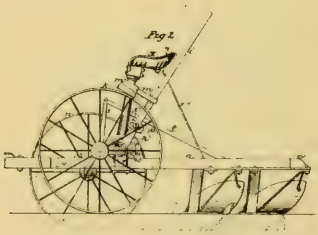
Inventor
Luke Chapman
By M. Simonds
Atty.

2 Sheets—Sheet 2.

L. CHAPMAN.

GANG-PLOW.

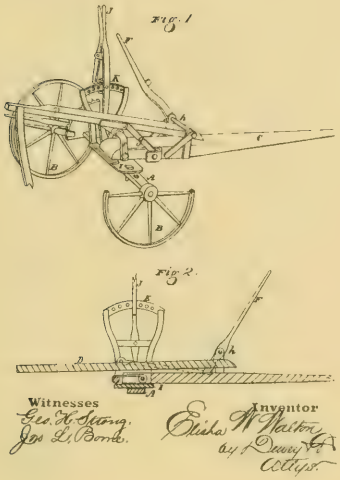
No. 185,493. Patented Dec. 19, 1876.



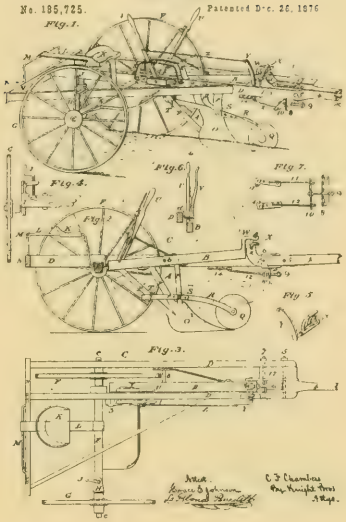
Witnesses
John Pollard
John Henry Brockleby

Inventor
Luke Chapman
By M. Simonds
Atty.

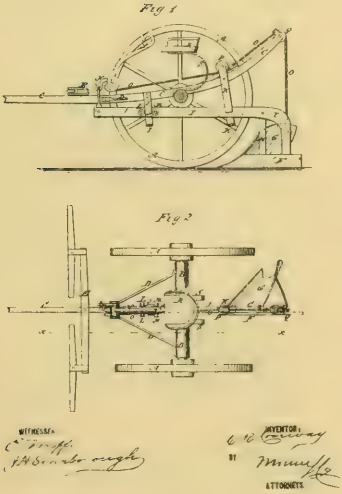
E. W. WALTON.
GANG-PLOW.
No. 185,601. Patented Dec. 19, 1876.



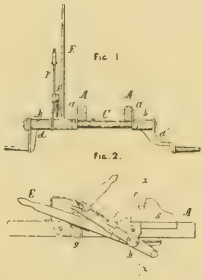
C. F. CHAMBERS.
WHEEL-PLOW
No. 185,725. Patented Dec. 26, 1876



J. R. CONWAY.
SULKY-PLOW.
No. 185,729. Patented Dec. 26, 1876.



F. S. DAVENPORT.
WHEEL-PLOW.
No. 185,821 Patented Jan. 2, 1877.

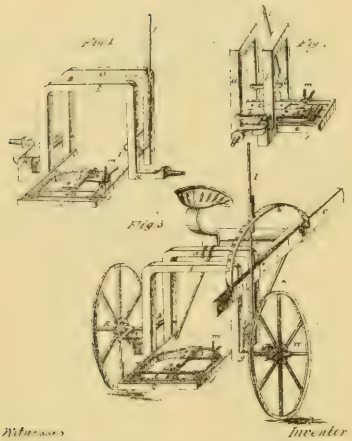


WITNESSES INVENTOR

A. H. Geiger F. S. Davenport

James Hooke

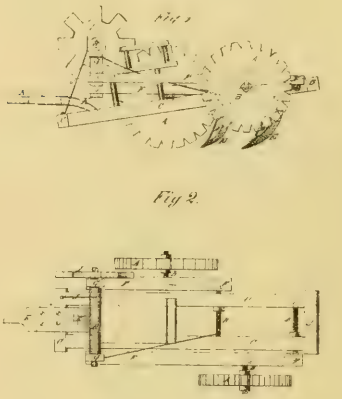
H. J. SCHMEISER.
SULKY-PLOW.
No. 195,972. Patented Jan. 2, 1877.



Witnesses
Sylvester Holstein
Jacob Schmeiser

Inventor
Henry Jacob Schmeiser

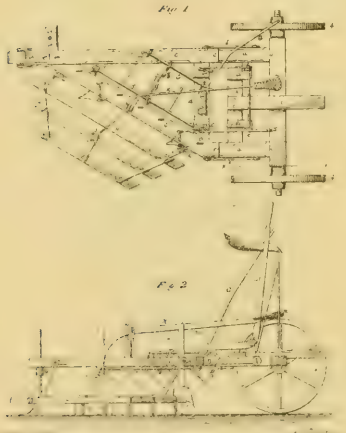
L. PEAK.
GANG-PLOW
No. 186,265 Patented Jan. 16, 1877.



WITNESSES:
H. C. Wainwright
John Cockbaile

INVENTOR:
L. Peak
BY
Munn & Co
ATTORNEYS

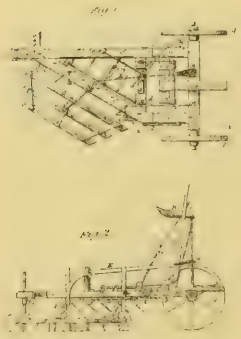
W. FRUELING.
GANG-PLOWS.
No. 186,335. Patented Jan. 16, 1877.



Witnesses
R. W. Evans
Geo. H. Evans

Inventor
William Fruehling
per atty
A. H. Evans

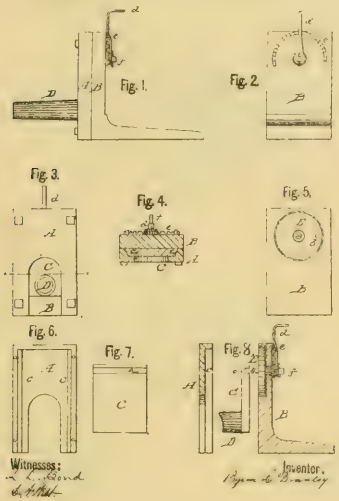
W. FRUHLING.
Gang-Plow
No. 7,931. Reissued Oct. 30, 1877.



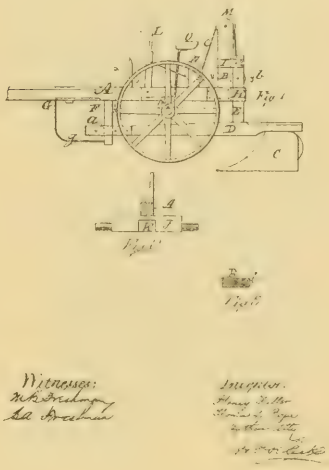
Witnesses
C. Florence Pole
Geo. H. Evans

Inventor
Wm. Fruehling
per atty
A. H. Evans Jr.

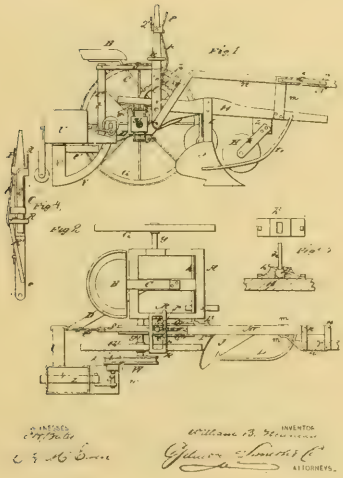
B. C. BRADLEY.
AXLES FOR SULKY AND GANG PLOWS
No. 186,409. Patented Jan. 23, 1877.



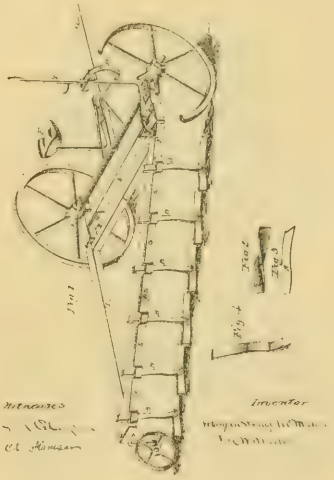
H. FULLER & T. L. BOYD.
SULKY-PLOW.
No. 186,673. Patented Jan. 30, 1877



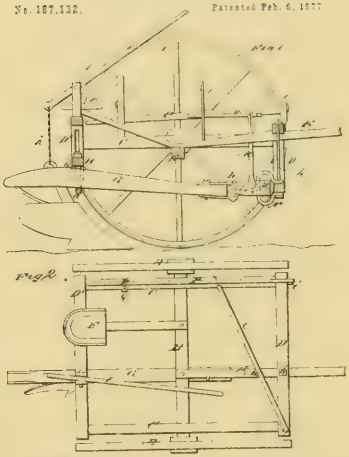
W. B. NEWMAN.
SULKY-PLOW
No. 186,867. Patented Jan. 30, 1877



M. S. McMAHAN.
GOPHER GANG-PLOWS
No. 187,032. Patented Feb. 6, 1877

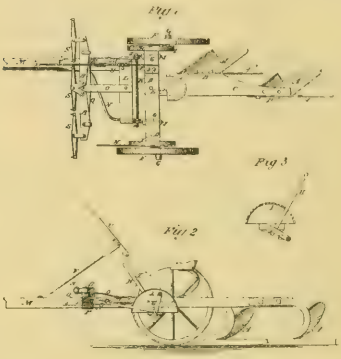


J. F. HAMMONTREE.
SULKY-PLOW.
No. 187,132. Patented Feb. 6, 1877



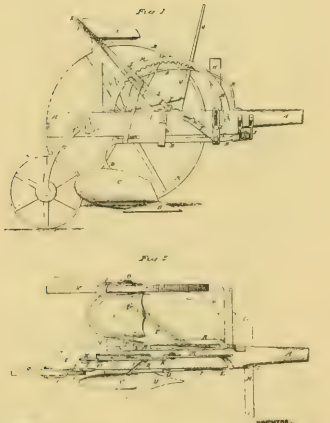
WITNESSES: E. H. Bates, George E. Upham
INVENTOR: Jerome F. Hammontree
Gilmore & Smith
ATTORNEYS.

J. R. CUMMINS.
GANG-PLOW
No. 187,516. Patented Feb. 20, 1877



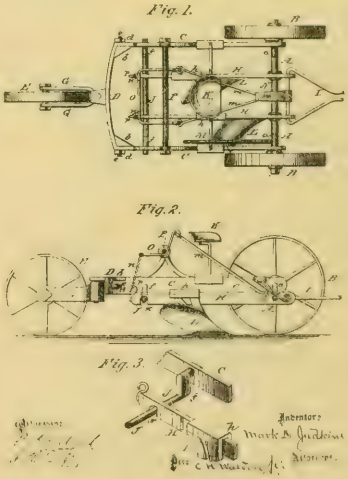
WITNESSES: Thomas McCall, J. H. Scarborough
INVENTOR: J. R. Cummins
BY Munn & Co.
ATTORNEYS.

W. N. RIDDLE.
SULKY-PLOW.
No. 187,560. Patented Feb. 20, 1877



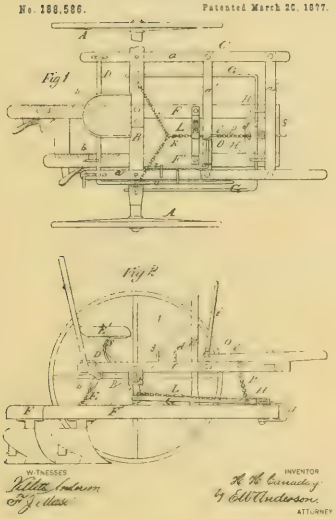
WITNESSES: E. H. Gratton, J. H. Scarborough
INVENTOR: W. N. Riddle
BY Munn & Co.
ATTORNEYS.

M. D. JUDKINS.
GANG-PLOW.
No. 188,247. Patented March 13, 1877.

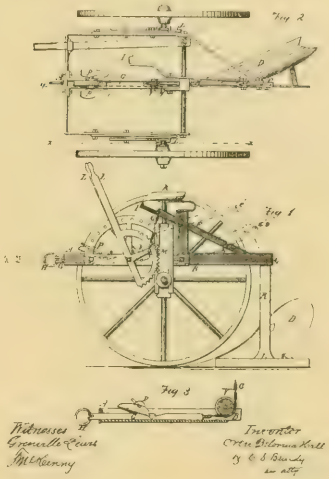


Witnesses: [illegible]
Inventor: Mark D. Judkins
Attorney: C. H. Ward

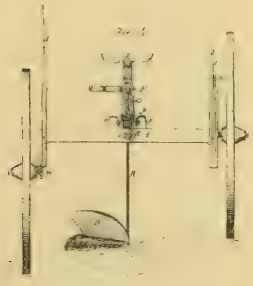
H. H. CANADAY
GANG-PLOW.
No. 188,586. Patented March 20, 1877.



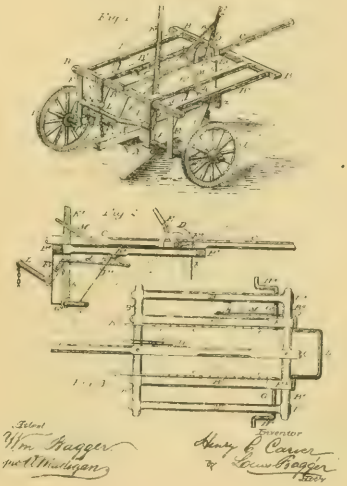
2 Sheets—Sheet 1.
C. D. HALL.
SULKY-PLOW.
No. 188,797. Patented March 27, 1877.



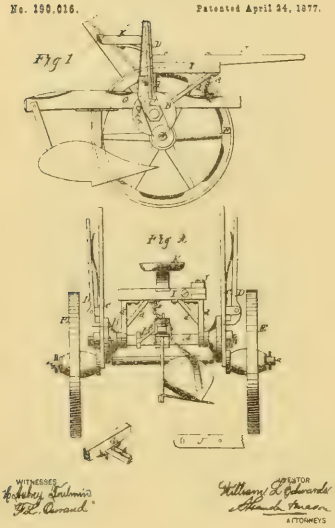
2 Sheets—Sheet 2.
C. D. HALL.
SULKY-PLOW.
No. 188,797. Patented March 27, 1877.



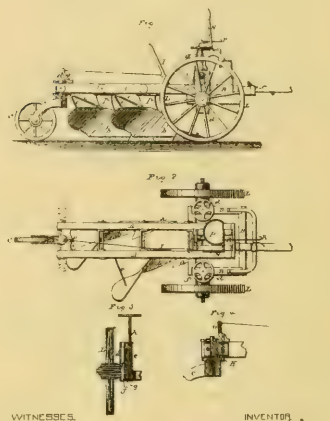
H. E. CARVER.
SULKY-PLOW
No. 188,856. Patented March 27, 1877.



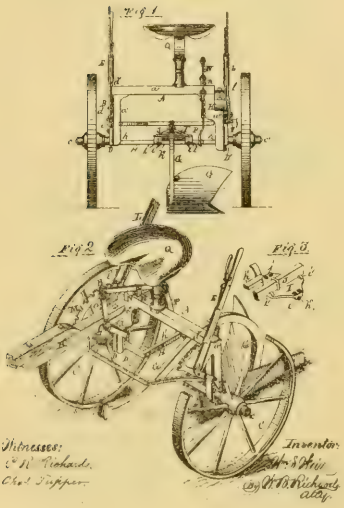
W. L. EDWARDS.
PLOW.
No. 190,016. Patented April 24, 1877.



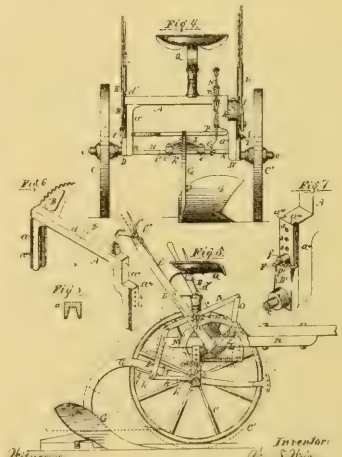
G. H. WILSON.
GANG-PLOW.
No. 190,460. Patented May 8, 1877.



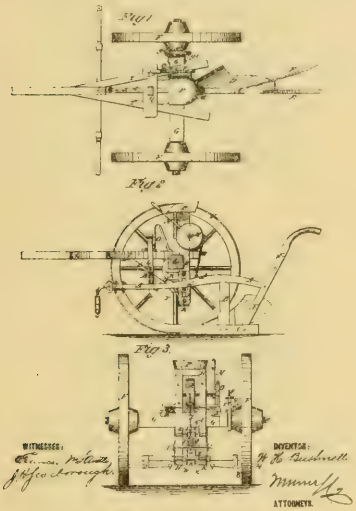
2 Sheets—Sheet 1.
W. S. WEIR.
SULKY-PLOW.
No. 190,652. Patented May 8, 1877.



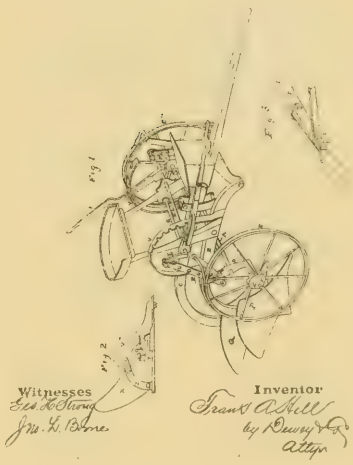
2 Sheets-Sheet 2.
W. S. WEIR.
SULKY-PLOW.
No. 190,652. Patented May 8, 1877.



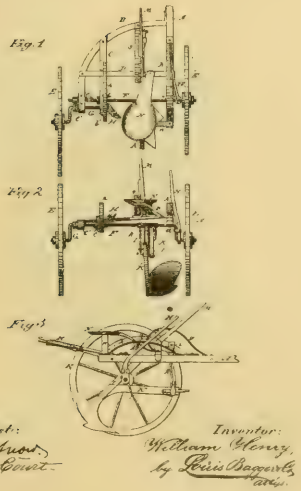
W. K. BUSHNELL.
SULKY ATTACHMENT FOR PLOWS.
No. 190,737. Patented May 15, 1877.



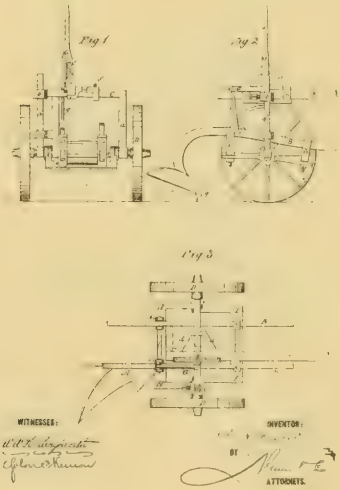
F. A. HILL.
SULKY-PLOW
No. 191,342. Patented May 29, 1877



W. HENRY.
SULKY-PLOW.
No. 191,588. Patented June 5, 1877.

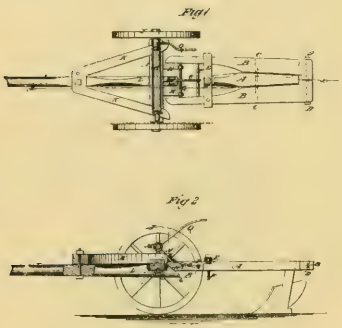


A. A. FOWLER.
SULKY-PLOW
No. 191,667. Patented June 5, 1877



A. A. AMONETT.
WHEEL-PLOW.

No. 192,142. Patented June 19, 1877.

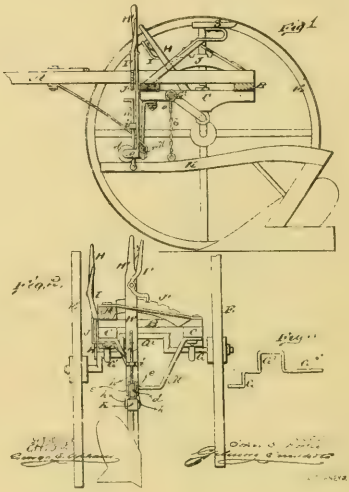


WITNESSES:
Francis M. Wadleigh
J. H. Fairbarrough

INVENTOR:
A. A. Amonett
BY
Munn & Co
ATTORNEYS.

J. E. PORTER.
SULKY PLOW

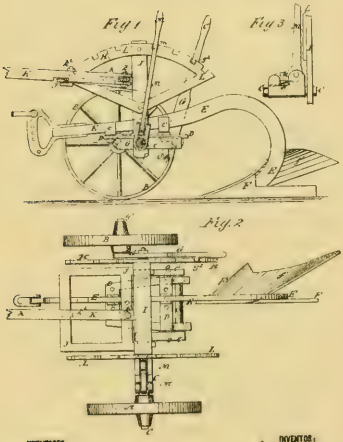
No. 192,279. Patented June 19, 1877



2 Sheets—Sheet 1.

J. L. FLORANCE.
RIDING-PLOW.

No. 193,152. Patented July 17, 1877.

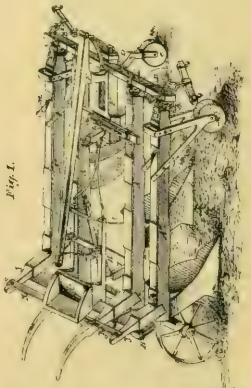


WITNESSES:
E. Wolff
Alex. H. Roberts

INVENTOR:
J. L. Florance
Munn & Co
ATTORNEYS

T. J. CRUMP.
GANG-PLOW.

No. 193,226. Patented July 17, 1877.



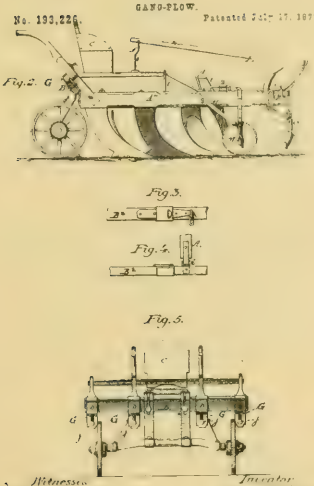
Witnesses:
J. H. McGuire
M. B. Acker

Inventor:
Thomas J. Crump
Per Parker W. Jones Jr. & Co
Attys.

2 Sheets—Sheet 1.

T. J. CRUMP.
GANG-PLOW.

No. 193,226. Patented July 17, 1877.



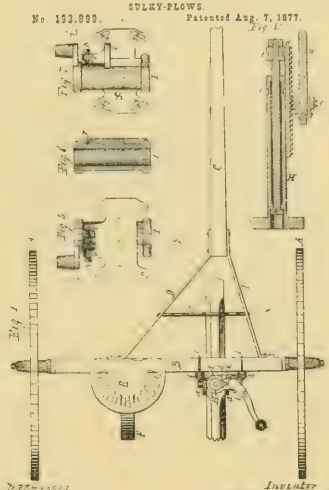
Witnesses
W. McNeill
W. B. Acker

Inventor
Thomas J. Crump
Per Parker & Spencer Jr. & Co
Atty

2 Sheets—Sheet 1.

G. H. SMITH.
SULKY-PLOWS.

No. 193,899. Patented Aug. 7, 1877.



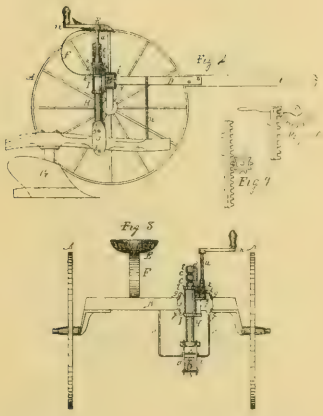
Witnesses
A. O. Bickel
E. J. Bickel

Inventor
George H. Smyth
Per Jacob Bickel
Atty

2 Sheets—Sheet 2.

G. H. SMITH.
SULKY-PLOWS.

No. 193,899. Patented Aug. 7, 1877.

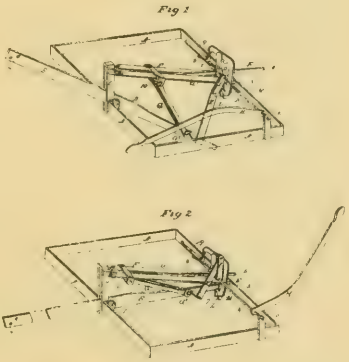


Witnesses
A. O. Bickel
E. J. Bickel

Inventor
George H. Smyth
Per Jacob Bickel
Atty

A. H. GALE.
SULKY-PLOWS.

No. 193,941. Patented Aug. 7, 1877.

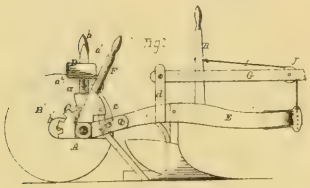


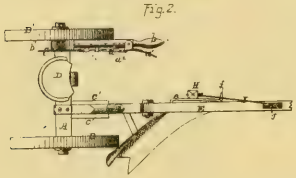
Witnesses
Chas. J. Brock
[illegible]

Inventor
Andel H. Gale
By Wright Brown & Quinby
Attorneys

J. F. READ.
PLOWS.

No. 193,983. Patented Aug. 7, 1877.



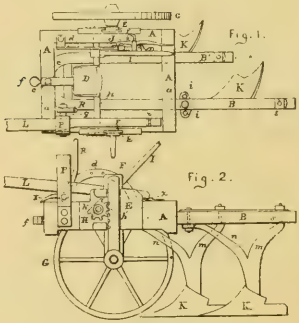


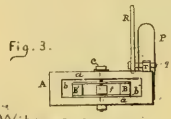
WITNESSES
Geo. E. Hutchinson
Jno. H. Hopkins

John F. Read
INVENTOR
Edson Bostwick
ATTORNEYS

T. BRÜNER.
WHEEL-PLOWS.

No. 194,029. Patented Aug. 14, 1877.



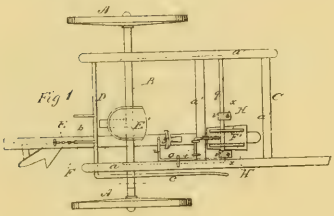


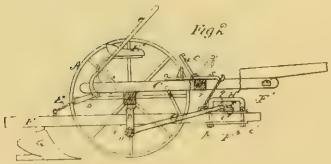
Witnesses:
Theo. Munger
H. A. Daniels

Inventor:
Theodore Brüner
by J. A. Lobos
Attorney.

H. H. CANADAY.
SULKY-PLOWS.

No. 194,072. Patented Aug. 14, 1877.



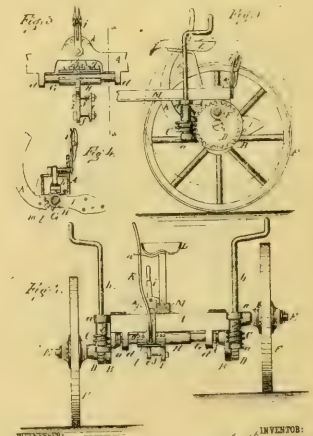


WITNESSES
L. Wells Anderson
E. G. Mussi

INVENTOR
Hugh H. Canaday,
by E. W. Anderson
ATTORNEY

S. PENNOCK.
PLOW-SULKY.

No. 194,167. Patented Aug. 14, 1877.



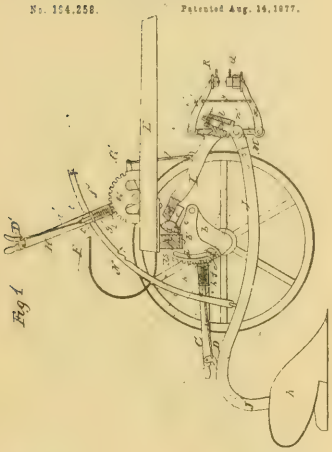
WITNESSES:
J. Van Nostrand Jr.
J. Scarborough.

INVENTOR:
S. Pennock
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1.

W. T. ORR.
SULKY-PLOWS.

No. 194,258. Patented Aug. 14, 1877.



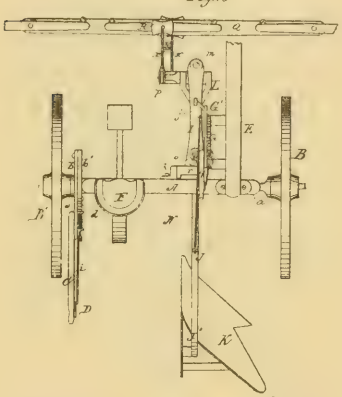
WITNESSES:
Geo. H. Utley
F. Gellatt

INVENTOR
William T. Orr,
by E. H. Anderson
ATTORNEY

2 Sheets—Sheet 2.

W. T. ORR.
SULKY-PLOWS.

No. 194,258. Patented Aug. 14, 1877.

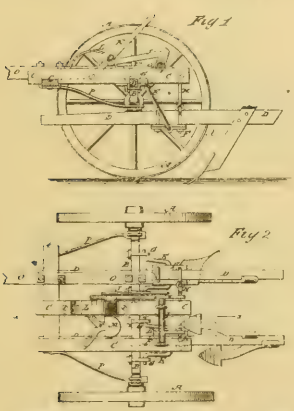


WITNESSES
Geo. H. Utley
F. Gellatt

INVENTOR
William T. Orr,
by E. H. Anderson
ATTORNEY

R. A. RENFRO.
SULKY-PLOWS.

No. 194,619. Patented Aug. 28, 1877



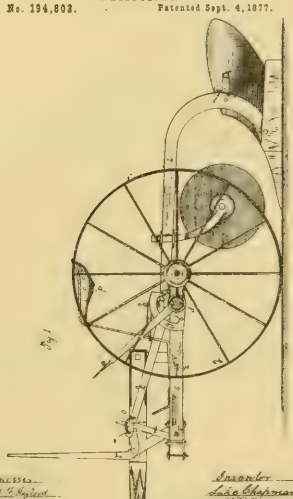
WITNESSES:
C. F. Kelly
J. H. Yarbrough

INVENTOR:
R. A. Renfro
BY
Mann & Co.
ATTORNEYS

3 Sheets—Sheet 1.

L. CHAPMAN.
WHEEL-PLOWS.

No. 194,803. Patented Sept. 4, 1877.



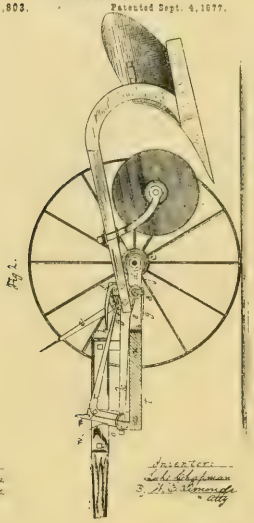
Witnesses
Robt. L. Ogilvie
Albert H. Rey

Inventor
Luke Chapman
per
H. C. Simonds
Atty

3 Sheets—Sheet 2.

L. CHAPMAN.
WHEEL-PLOWS.

No. 194,803. Patented Sept. 4, 1877.



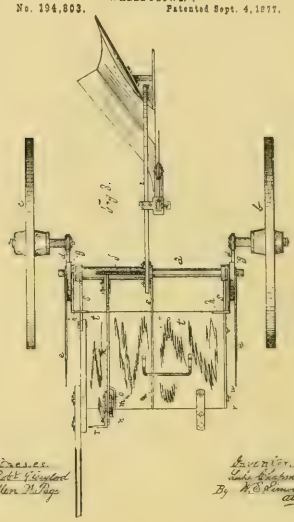
Witnesses.
Robt. T. Taylor
Allen M. Clap

Inventor.
L. Chapman
By H. S. Normand
Atty

3 Sheets—Sheet 3.

L. CHAPMAN.
WHEEL-PLOWS.

No. 194,803. Patented Sept. 4, 1877.

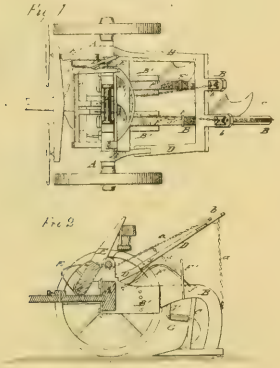


Witnesses.
Robt. Taylor
Allen M. Clap

Inventor.
L. Chapman
By H. S. Normand
Atty

J. H. GOODWIN & D. WOODARD.
SULKY AND GANG PLOWS.

No. 195,001. Patented Sept. 11, 1877.

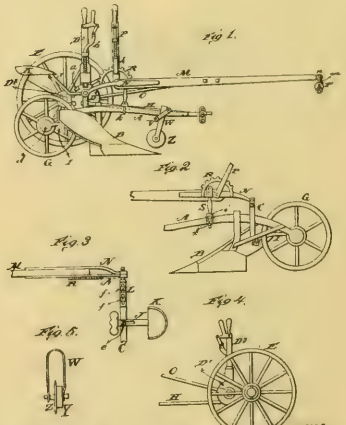


WITNESSES:
Edward E. Bottimore
J. Hifenborough

INVENTORS
J. H. Goodwin
D. Woodard
BY
Munn & Co.
ATTORNEYS.

J. F. GLIDDEN & P. W. VAUGHAN.
SULKY-PLOWS.

No. 195,119. Patented Sept. 11, 1877.

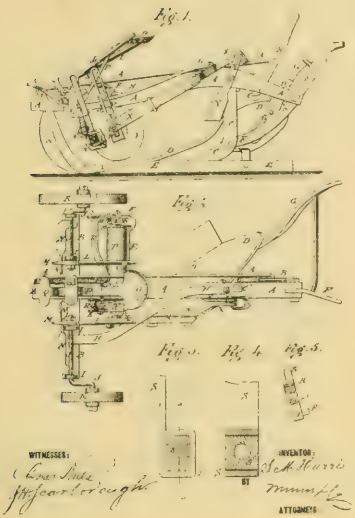


WITNESSES:
Robt. Ewell
George A. Upman

INVENTORS
Joseph F. Glidden
Thomas W. Vaughan
By Munn & Co.
ATTORNEYS

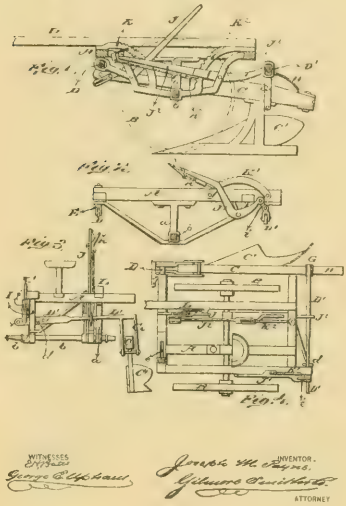
S. M. HARRIS.
WHEEL-PLOWS.

No. 195,272 Patented Sept. 18, 1877



J. M. PAYNE.
SULKY-PLOWS

No. 195,389 Patented Sept. 18, 1877.



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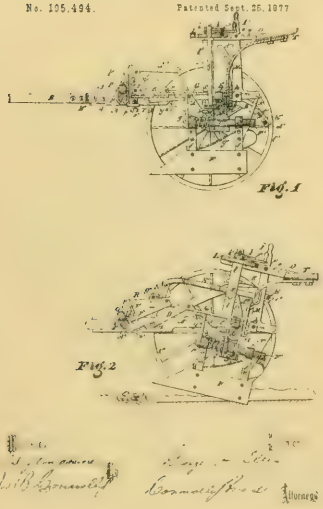
G. A. ELLIS.
SULKY-PLOWS.

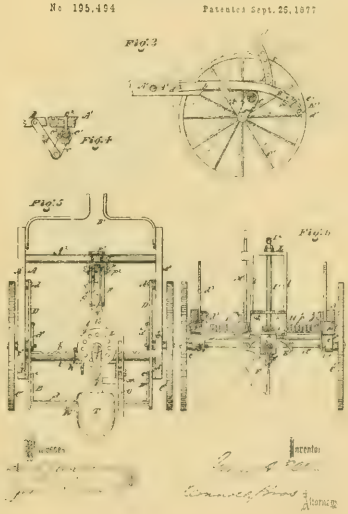
No. 195,494. Patented Sept. 25, 1877



2 Sheets—Sheet 2.

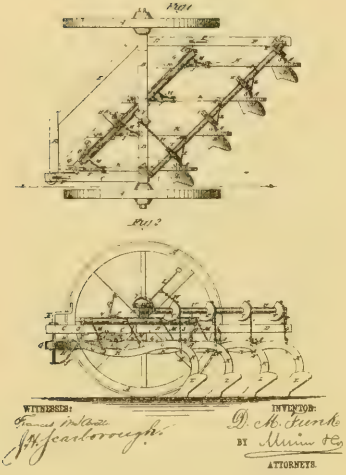
G. A. ELLIS.
SULKY-PLOWS

No. 195,494 Patented Sept. 25, 1877



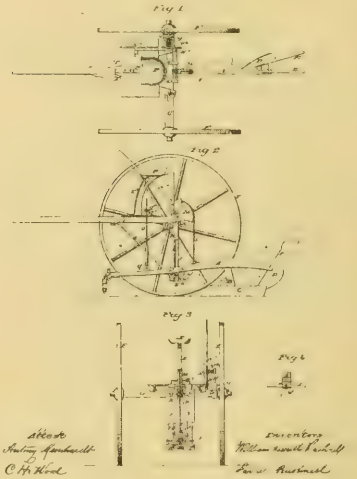
D. M. FUNK.
GANG-PLOWS.

No. 195,498. Patented Sept. 25, 1877.



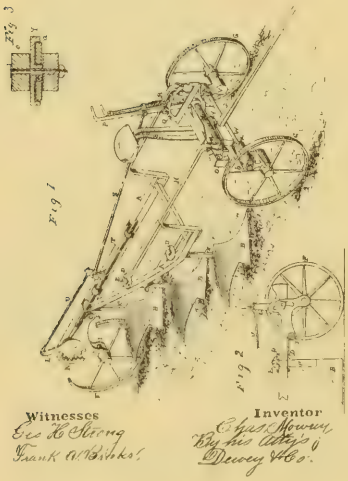
W. K. & D. BUSHNELL.
Sulky Attachment for Plows.

No. 195,977. Patented Oct. 9, 1877.



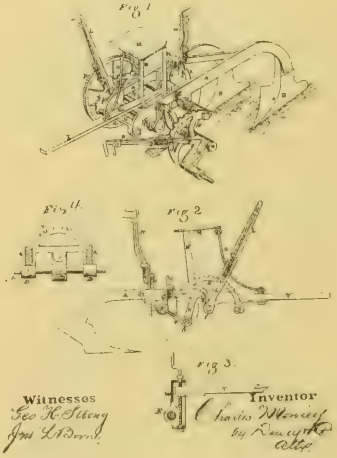
C. MOWREY.
Gang-Plows.

No. 197,159. Patented Nov. 13, 1877.



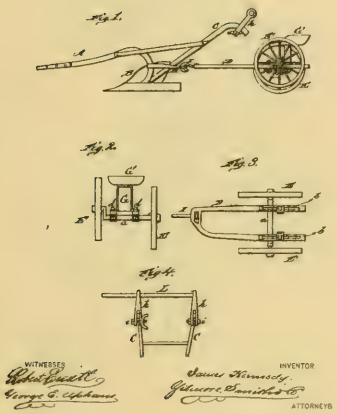
C. MOWREY.
Gang-Plow.

No. 197,160. Patented Nov. 13, 1877.



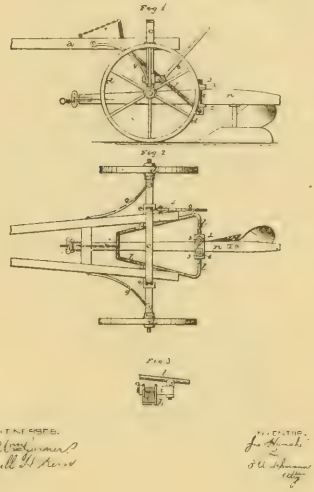
J. KENNEDY.
Riding Plow.

No. 197,380. Patented Nov. 20, 1877.



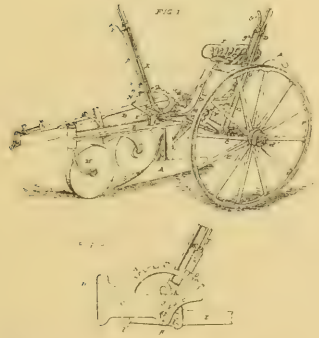
J. HAMAKER.
Sulky-Plow.

No. 198,017. Patented Dec. 11, 1877



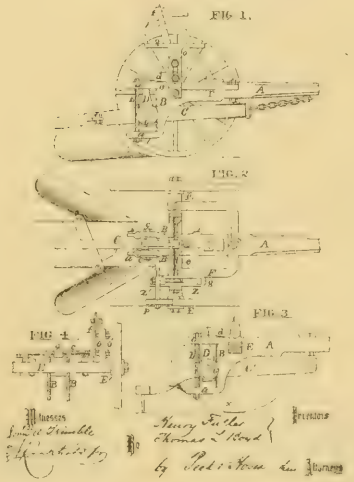
J. BAILEY & G. MARSHALL.
Riding-Attachment for Plows.

No. 198,068. Patented Dec. 11, 1877.



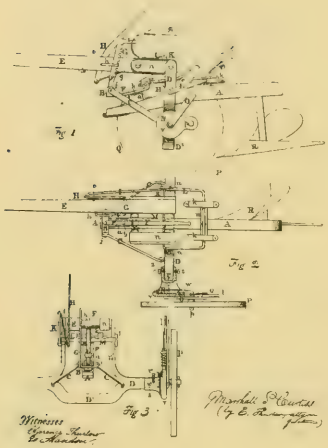
H. FULLER & T. L. BOYD.
Sulky-Plows.

No. 198,100. Patented Dec. 11, 1877



M. S. CURTISS
Gang-Plow.

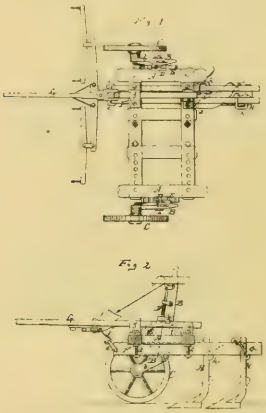
No. 198,190. Patented Dec. 18, 1877



2 Sheets—Sheet 1

C. DOMSCHKE.
Gang-Plow and Cultivator

No. 198,193. Patented Dec. 18, 1877



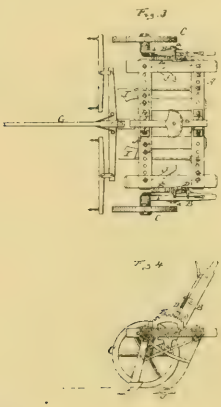
Witnesses
John C. Fainbridge
R. F. Gaston

Inventor:
C. Domschke
by his attorney
W. Briesen.

2 Sheets—Sheet 2

C. DOMSCHKE.
Gang-Plow and Cultivator.

No. 198,193. Patented Dec. 18, 1877

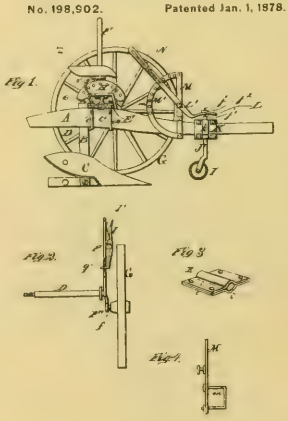


Witnesses:
John C. Fainbridge
R. F. Gaston

Inventor:
C. Domschke
by his attorney
W. Briesen.

J. M. PAYNE.
Plow.

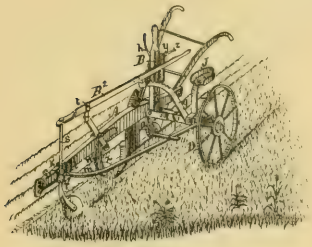
No. 198,902. Patented Jan. 1, 1878.



WITNESSES
Edw. Everett
Geo. E. Upham

INVENTOR.
Joseph M. Payne.
Pierce, Christler & Co.
ATTORNEYS.

J. McBRIDE.
Plow-Attachment.
No. 199,082. Patented Jan. 8, 1878.

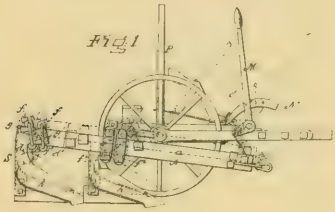


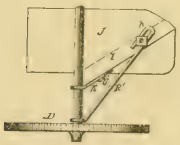
Witnesses:
M. E. Orrig.
Arthur Lemson.

Inventor:
John McBride,
By Thomas G. Orrig,
Attorney.

2 Sheets—Sheet 1

J. R. McCORMICK.
Gang and Sulky Plows.
No. 199,083. Patented Jan. 8, 1878.



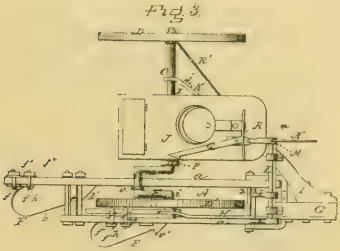


WITNESSES
C. J. Oliver
W. E. Hall

INVENTOR
John R. McCormick
by Ell Anderson
ATTORNEY

2 Sheets—Sheet 2

J. R. McCORMICK
Gang and Sulky Plows.
No. 199,083. Patented Jan. 8, 1878.

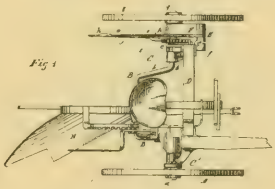


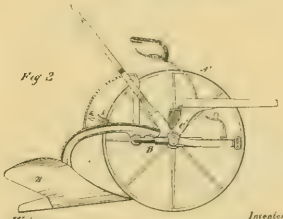
WITNESSES
C. J. Oliver
W. E. Hall

INVENTOR
John R. McCormick
by Ell Anderson
ATTORNEY

2 Sheets—Sheet 1

C. A. HAGUE.
Sulky-Plow.
No. 199,153. Patented Jan. 15, 1878.



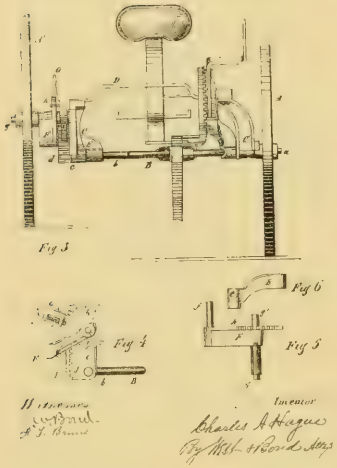


Witnesses
A. W. Bond.
H. L. Burns

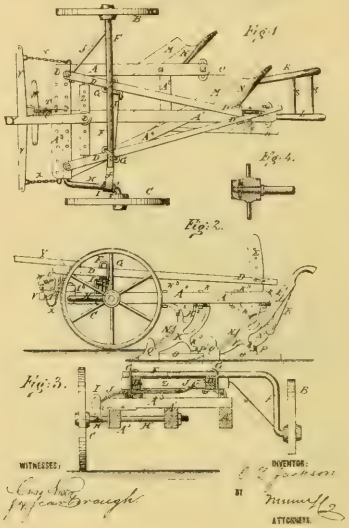
Inventor
Charles A. Hague
by Wm. H. Bond, Atty.

2 Sheets—Sheet 1.

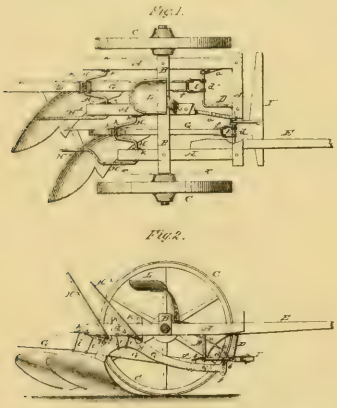
C. A. HAGUE.
Sulky-Plow.
No. 199,153. Patented Jan. 15, 1878.



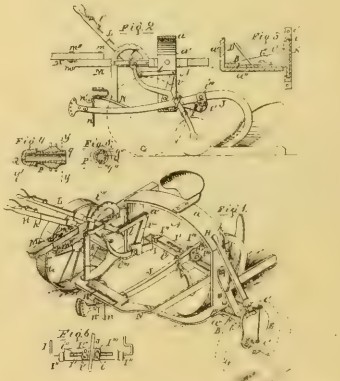
C. L. JACKSON
Wheel-Plows
No. 199,443. Patented Jan. 22, 1878.



H. L. DANIELS.
Gang and Sulky Plow.
No. 199,622. Patented Jan. 29, 1878.

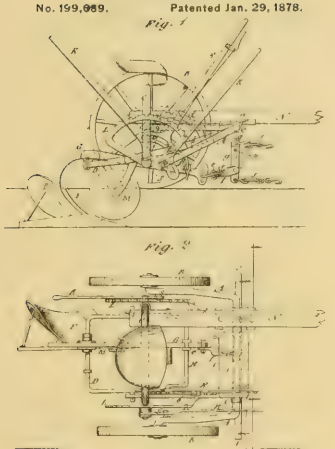


S. E. DRAKE.
Sulky-Plow.
No. 199,626. Patented Jan. 29, 1878.



E. C. BUDD.
Sulky-Plow.

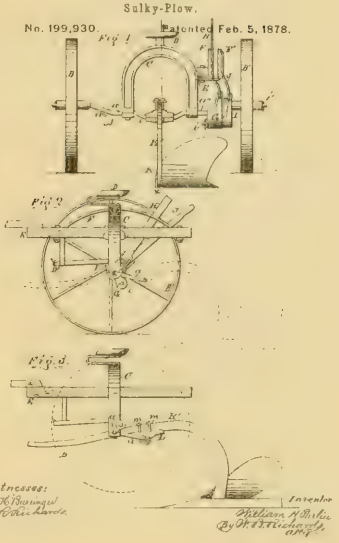
No. 199,989. Patented Jan. 29, 1878.



2 Sheets—Sheet 1

W. H. PARLIN.
Sulky-Plow.

No. 199,930. Patented Feb. 5, 1878.



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W. H. PARLIN.
Sulky-Plow.

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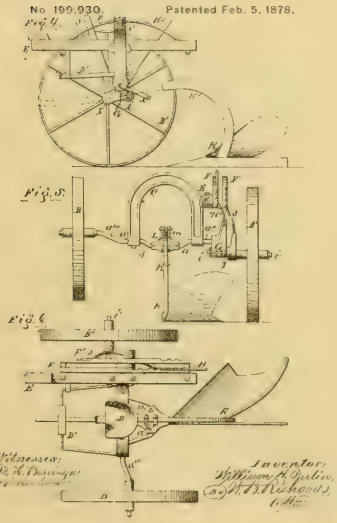

S. T. FERGUSON.
Sulky-Plow.

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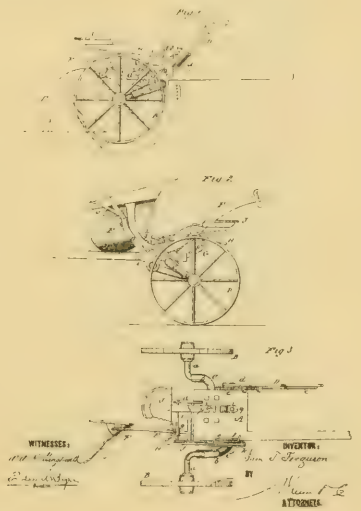

B. C. BRADLEY & C. A. HAGUE.
Sulky-Plow.

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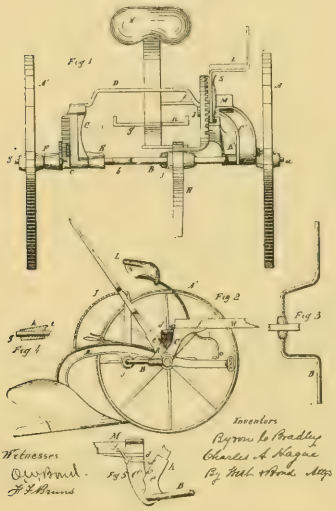

B. C. BUCKLEY.
Sulky-Plow.

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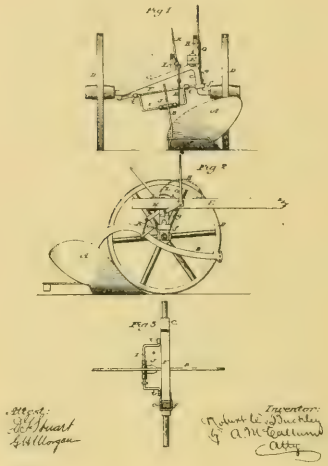

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Sulky-Plow.

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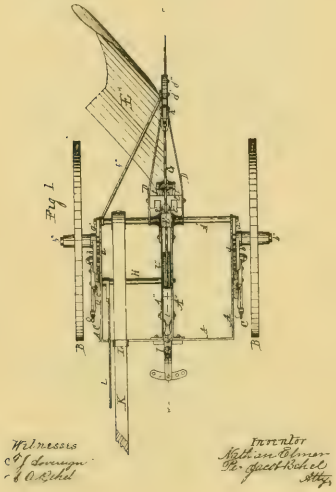

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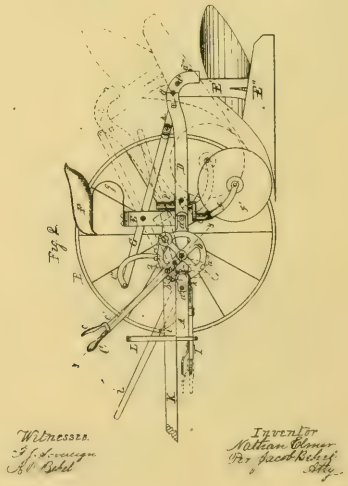
N. ELMER.
Sulky-Plow.

No. 200,650. Patented Feb. 26, 1878.



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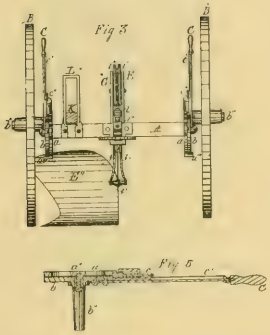
N. ELMER.
Sulky-Plow.

No. 200,650. Patented Feb. 26, 1878.



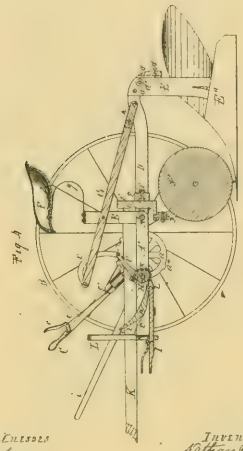
Witnesses
F. P. Lemmon
H. O. Schell

Inventor
Nathan Elmer
Per Jacob Schels
Atty.

4 Sheets—Sheet 4

N. ELMER
Sulky-Plow

No. 200,650. Patented Feb. 26, 1878.



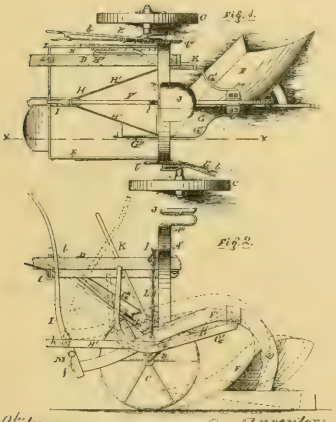
Witnesses
F. P. Lemmon
H. O. Schell

Inventor
Nathan Elmer
Per Jacob Schels
Atty

2 Sheets—Sheet 1

J. PIERPONT.
Sulky-Plow.

No. 200,841. Patented March 5, 1878.



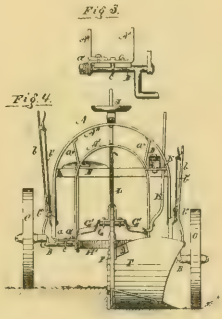
Witnesses:
W. K. Barnes
Chas. F. Temple

Inventor:
Joshua Pierpont
By W. W. Richards
Atty.

2 Sheets—Sheet 2

J. PIERPONT.
Sulky-Plow.

No. 200,841. Patented March 5, 1878.

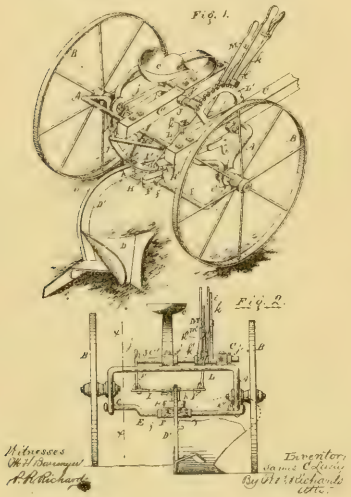


Witnesses:
Chas. F. Temple
W. K. Barnes

Inventor:
Joshua Pierpont
By W. W. Richards
Atty.

3 Sheets—Sheet 1

J. C. LEIDY.
Sulky-Plow.
No. 201,025. Patented March 5, 1878.



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J. C. LEIDY.
Sulky-Plow.
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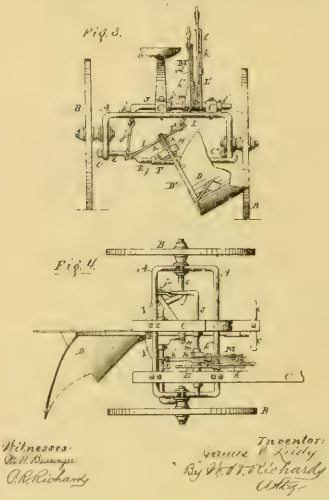

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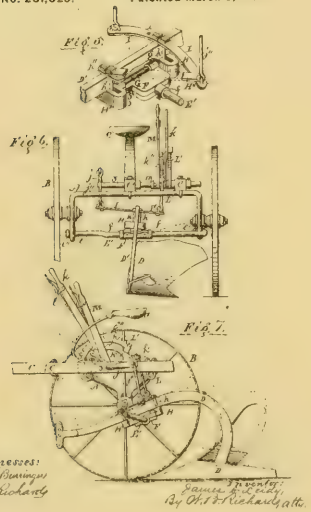
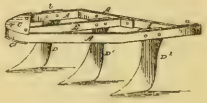
J. C. LEIDY.
Sulky-Plow.
No. 201,025. Patented March 5, 1878.



J. CURRIE.
Gang-Plow Frame.
No. 201,097. Patented March 12, 1878.

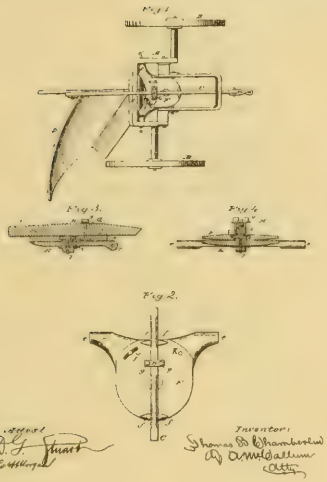


Witnesses.

Inventor.

T. B. CHAMBERLIN.
Sulky-Plow.

No. 201,227. Patented March 12, 1878.



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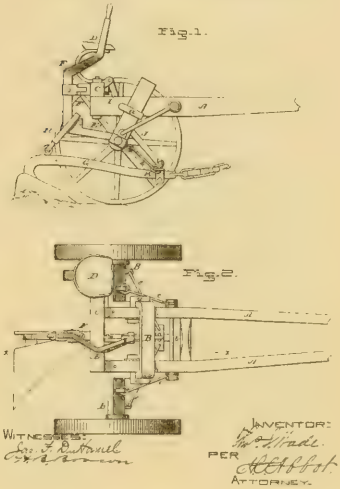
T. I. WADE.
Plow.

No. 201,576 Patented March 19, 1878.



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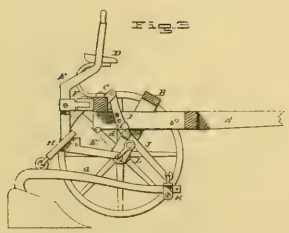
T. I. WADE.
Plow.

No. 201,576. Patented March 19, 1878.

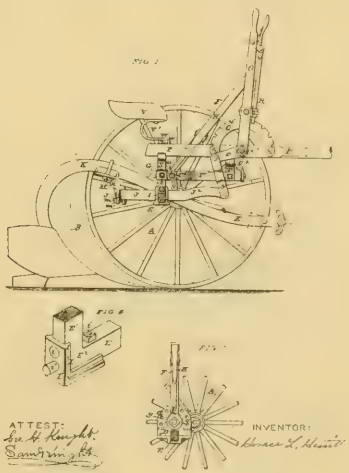


Witnesses:
Inventor:
Per
Attorney.

3 Sheets—Sheet 1

H. L. HEWITT.
Sulky Plow.

No. 201,670. Patented March 26, 1878.

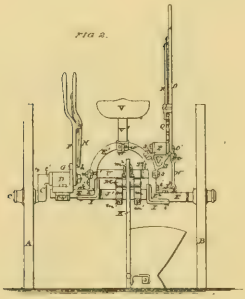


8 Sheets—Sheet 2.

H. L. HEWITT.
Sulky Plow.

No. 201,670. Patented March 26, 1878.

FIG 2.



ATTEST:
Geo H. Knight
Sam'l Knight

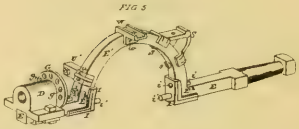
INVENTOR:
Horace L. Hewitt

8 Sheets—Sheet 3.

H. L. HEWITT
Sulky Plow.

No. 201,670 Patented March 26, 1878.

FIG 5

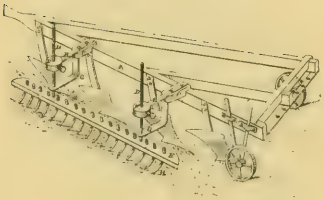


ATTEST:
Geo H. Knight
Sam'l Knight

INVENTOR
Horace L. Hewitt

J. M. McPIKE.
Harrow Attachment for Plows.

No. 201,694. Patented March 26, 1878.



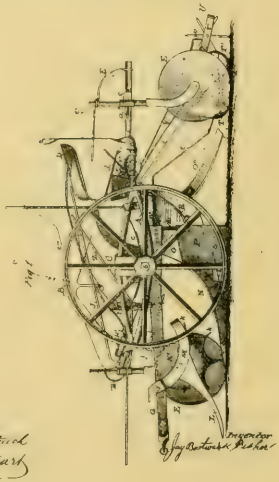
Witnesses
Geo. H. Borne
Geo. H. Strong.

Inventor
John M. McPike
by Dewey & Co
Attys.

4 Sheets—Sheet 1.

J. B. FISHER.
Sulky Plow.

No. 201,765. Patented March 26, 1878.



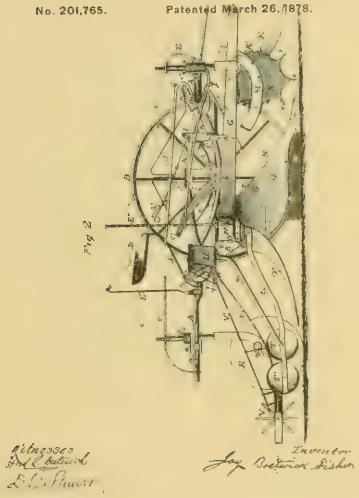
Witnesses
Chas. E. Gifford
J. E. Stewart

Inventor
Jay Bertram Fisher

4 Sheets—Sheet 2

J. B. FISHER.
Sulky Plow.

No. 201,765. Patented March 26, 1878.



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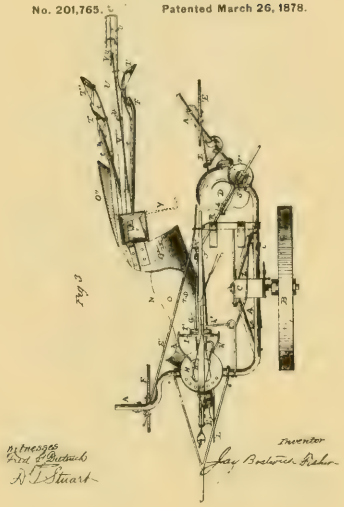
J. B. FISHER.
Sulky Plow.

No. 201,765. Patented March 26, 1878.



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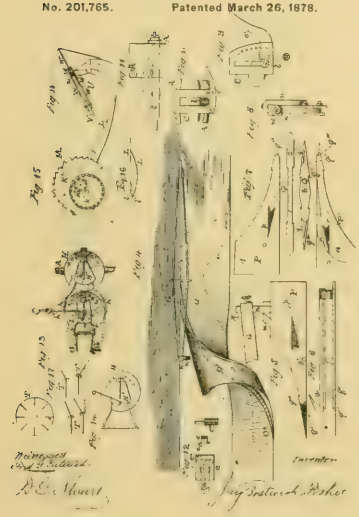
J. B. FISHER.
Sulky Plow.

No. 201,765. Patented March 26, 1878.



M. HARRIS.
Draft Attachment for Plows.

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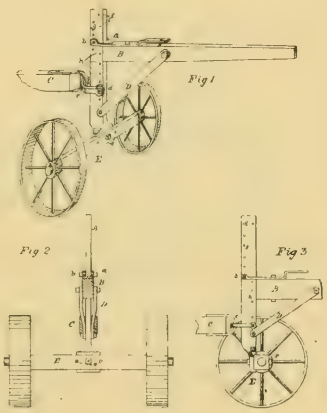
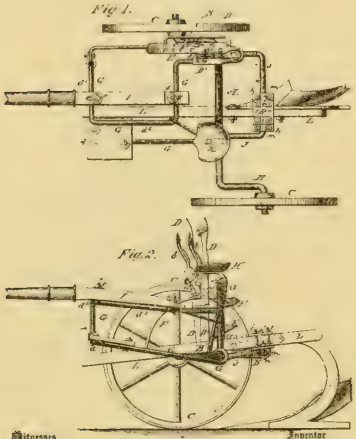


Witnesses
N. C. Thomas
G. H. Thomas

Inventor
Milo Harris

A. W. TUCKER.
Sulky Plow.

No. 202,304. Patented April 9, 1878.



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J. F. GLIDDEN & P. W. VAUGHAN.
Sulky-Plow.

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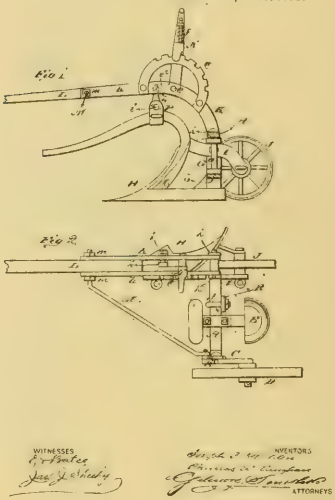
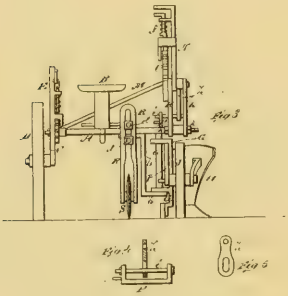


2 Sheets—Sheet 2

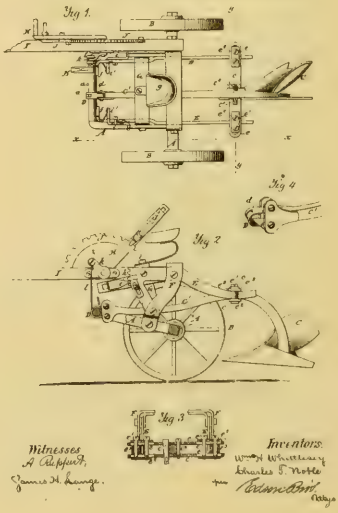
J. F. GLIDDEN & P. W. VAUGHAN.
Sulky-Plow.

No. 202,538. Patented April 16, 1878.



W. H. WHITTLESEY & U. T. NOBLE.
Wheel-Plow.

No. 202,615. Patented April 16, 1878.



H. M. FREEMAN.
Riding-Attachment to Plows.

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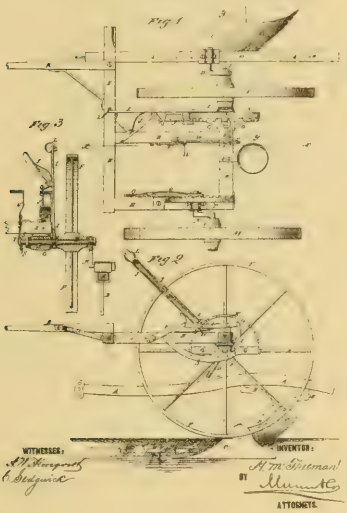
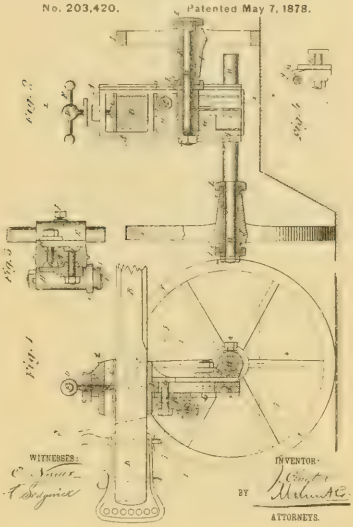


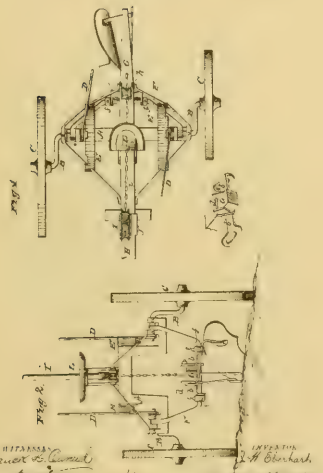
J. CLAYTON.
Wheel-Attachment for Plows.

No. 203,420. Patented May 7, 1878.



J. W. EBERHART.
Sulky-Plow.

No. 203,432. Patented May 7, 1878.



J. B. FISHER. 3 Sheets—Sheet 1
Sulky-Plow.

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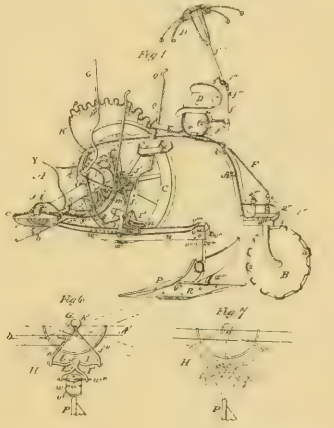


3 Sheets—Sheet 2

J. B. FISHER.
Sulky-Plow.

No. 203,903. Patented May 21, 1878

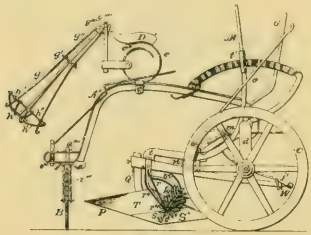


Fig 2

Fig 9

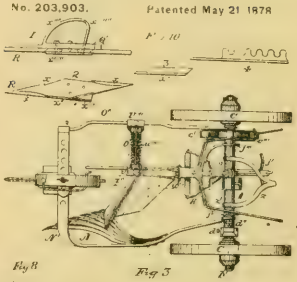
Attest:
F. H. Brock
H. G. Stuart

Inventor:
Jay Victor Fisher

3 Sheets—Sheet 3

J. B. FISHER
Sulky-Plow.

No. 203,903. Patented May 21 1878



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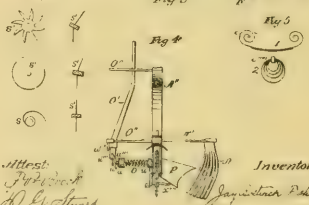


Fig 8 Fig 4 Fig 5

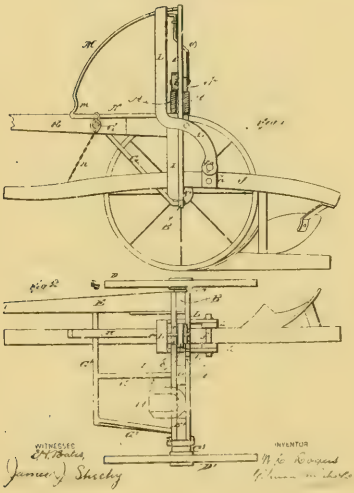
Attest:
F. H. Brock
H. G. Stuart

Inventor:
Jay Victor Fisher

2 Sheets—Sheet 1

W. C. ROGERS
Sulky-Plow.

No. 204,091. Patented May 21, 1878.



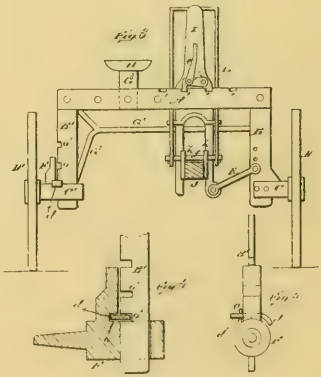
WITNESSES
F. H. Brock
James J. Sheehy

INVENTOR
W. C. Rogers
Gilman Hall & Co.

2 Sheets—Sheet 2

W. C. ROGERS.
Sulky-Plow.

No. 204,091. Patented May 21, 1878.



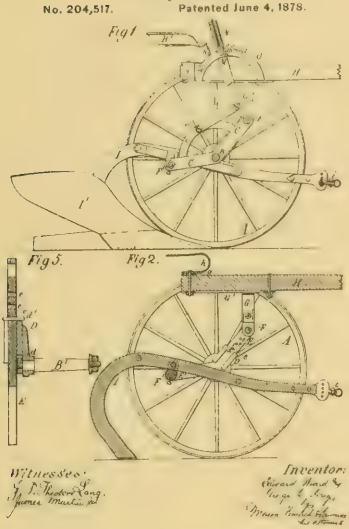
WITNESSES
F. H. Brock
James J. Sheehy

INVENTOR
W. C. Rogers
Gilman Hall & Co.
ATTORNEYS

2 Sheets—Sheet 1

E. WIARD & G. C. AVERY.
Sulky-Plow.

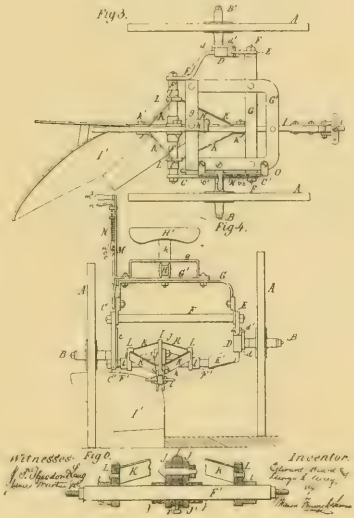
No. 204,517. Patented June 4, 1878.



2 Sheets—Sheet 2

E. WIARD & G. C. AVERY.
Sulky-Plow.

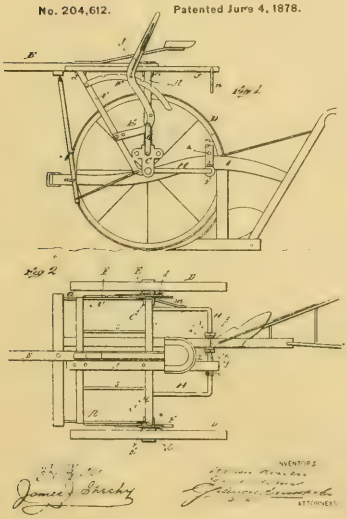
No. 204,517. Patented June 4, 1878.



2 Sheets—Sheet 1.

N. ROWEN & G. AMIS.
Wheel-Plow.

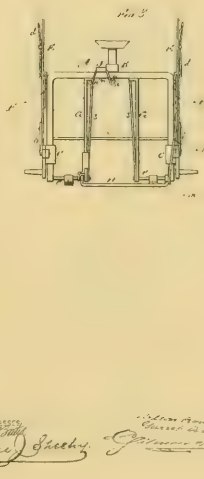
No. 204,612. Patented June 4, 1878.



2 Sheets—Sheet 2

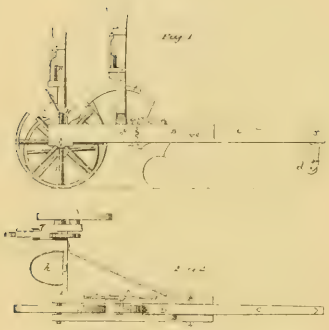
N. ROWEN & G. AMIS.
Wheel-Plow.

No. 204,612. Patented June 4, 1878



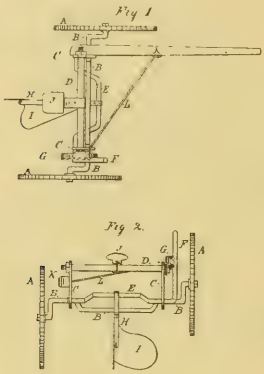
F. M. FOSTER.
Sulky-Plow.

No. 204,890. Patented June 18, 1878



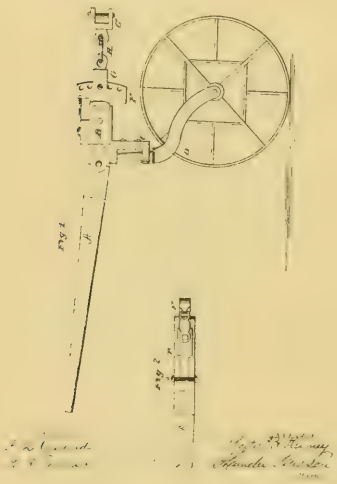
G. W. WRIGHT
Sulky-Plow.

No. 205,025. Patented June 18, 1878.



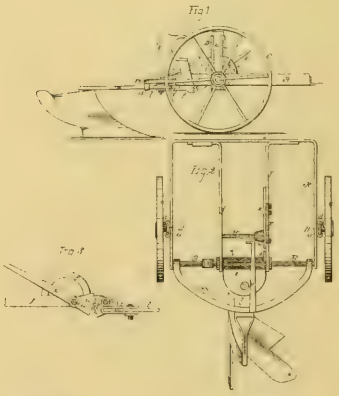
L. B. KENNEY.
Pole for Agricultural Implements.

No. 205,397. Patented June 25, 1878.



C. P. SNOW.
Plow.

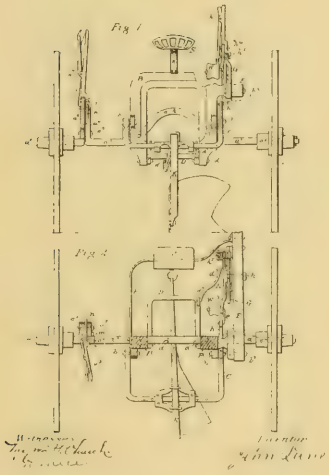
No. 205,509. Patented July 2, 1878.



J. LANE.
Sulky-Plow.

2 Sheets—Sheet 1

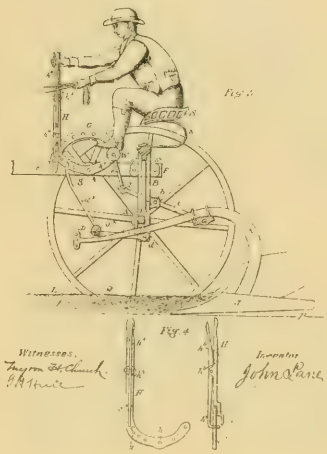
No. 205,752. Patented July 9, 1878.



J. LANE.
Sulky-Plow.

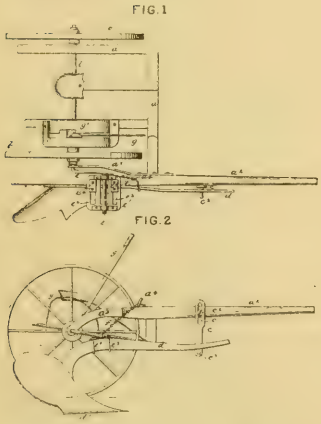
2 Sheets—Sheet 2

No. 205,752. Patented July 9, 1878



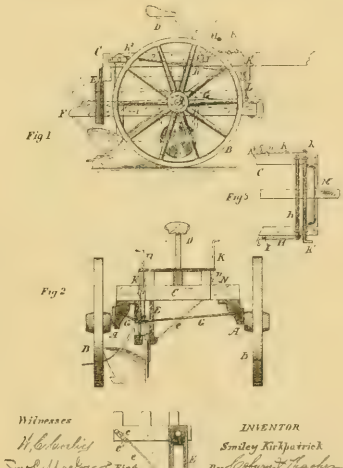
I. BERDAN.
Sulky for Plows.

No. 205,827. Patented July 9, 1878.



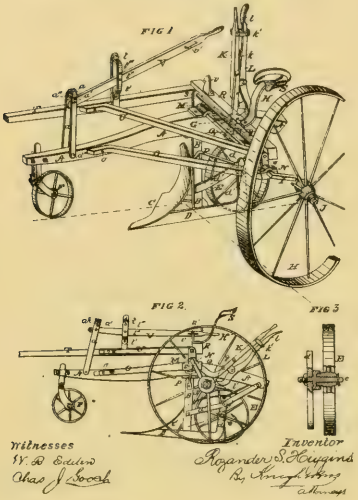
S. KIRKPATRICK.
Sulky-Plow.

No. 205,874. Patented July 9, 1878.



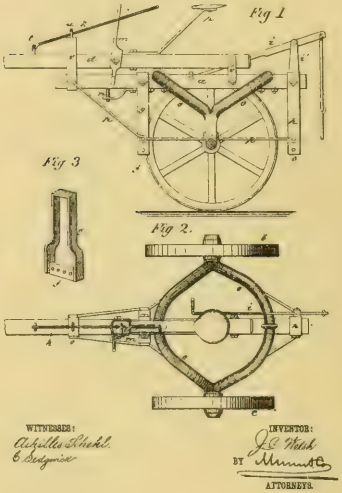
R. S. HIGGINS.
Riding-Plow

No. 206,732. Patented Aug. 6, 1878



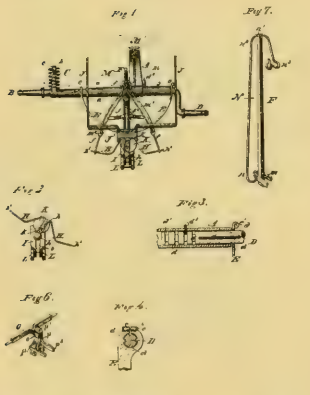
J. C. WELSH
Sulky-Plow.

No. 206,989. Patented Aug. 13, 1878.



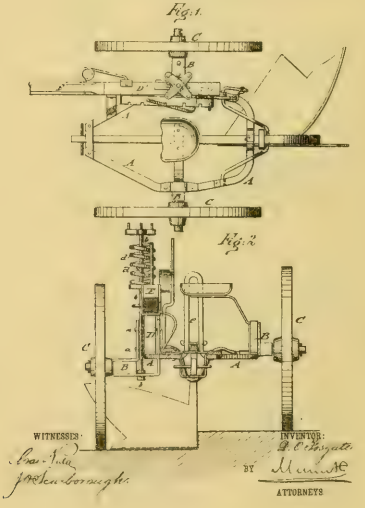
J. B. FISHER.
Sulky-Plow.

No. 207,598. Patented Sept. 3, 1878.



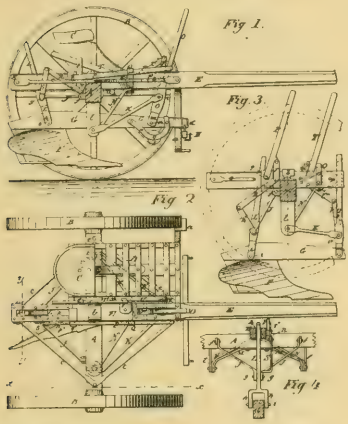
D. O. FOSGATE.
Sulky-Plow.

No. 207,650. Patented Sept. 3, 1878.



D. W. PALMER.
Sulky-Plow

No. 207,674. Patented Sept. 3, 1878.

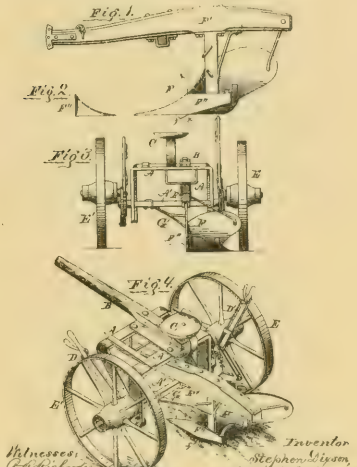


WITNESSES:
A. Schuhl
C. Sayers

INVENTOR:
D. W. Palmer
BY Munn & Co.
ATTORNEYS.

S. DIXSON.
Sulky-Plow

No. 207,720. Patented Sept. 3, 1878.



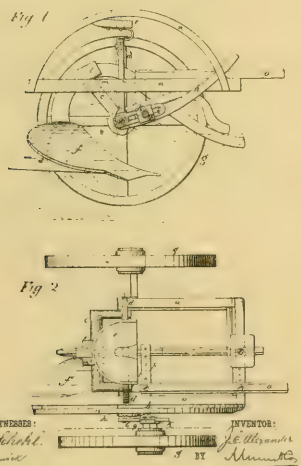
Witnesses:
E. H. Richards
M. Dawson

Inventor
Stephen Dixson,
by D. A. Wilkinson,
Atty.

2 Sheets—Sheet 1

J. E. ALEXANDER.
Sulky-Plow.

No. 208,053. Patented Sept. 17, 1878.

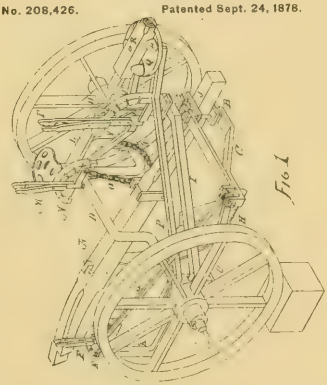


WITNESSES:
A. Schuhl
C. Sayers

INVENTOR:
J. E. Alexander
BY Munn & Co.
ATTORNEYS

C. SIEGORDNER.
Plow-Sulky.

No. 208,426. Patented Sept. 24, 1878.



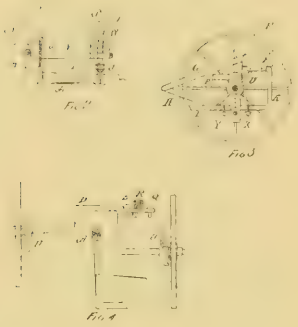
WITNESSES:
L. P. Johnson
H. A. Gray.

Conrad Siegordner INVENTOR
by James N. See.

2 Sheets—Sheet 2

C. SIEGORDNER.
Plow-Sulky.

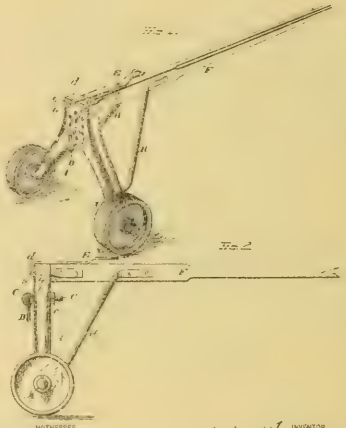
No. 208,426. Patented Sept. 24, 1878.



Witnesses
Conrad Siegordner Inventor
By James N. Ser
Attorneys

D. SMITH.
Farm-Truck.

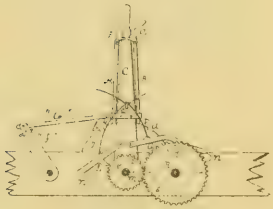
No. 208,498. Patented Oct. 1, 1878.



WITNESSES
INVENTOR
By Fennell & Fennell
ATTORNEYS

F. H. ISAACS.
Sulky-Plow.

No. 208,978. Patented Oct. 15, 1878.

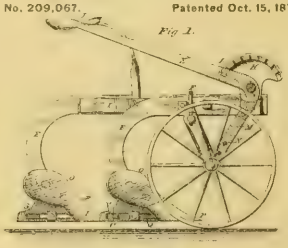


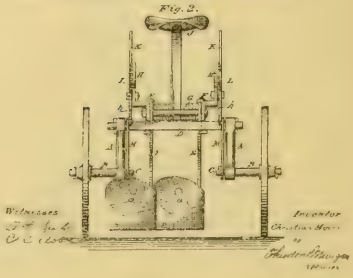
Witness
Inventor
Attys

2 Sheets—Sheet 1

C. MYERS.
Plow.

No. 209,067. Patented Oct. 15, 1878.



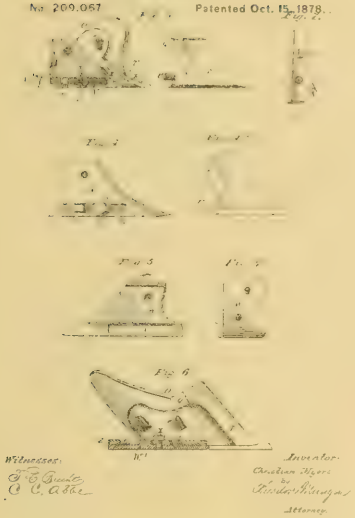


Witnesses
Inventor

2 Sheets—Sheet 2

C. MYERS.
Plow.

No. 209,067 Patented Oct. 15, 1878.

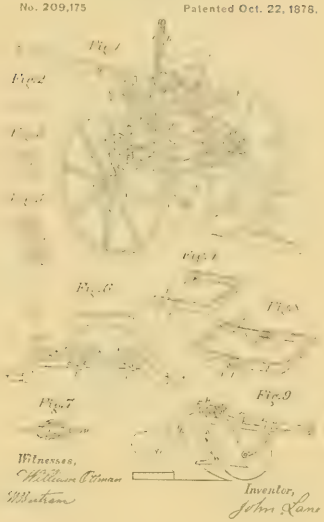


Witnesses:
E. C. Brooks
C. C. Adler

Inventor:
Christian Myers
by
Fowler & Wiedersheim
Attorneys.

J. LANE.
Sulky-Plow.

No. 209,175 Patented Oct. 22, 1878.



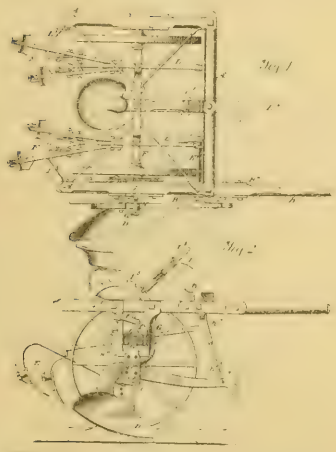
Witnesses,
William Ottman
W. Beatham

Inventor,
John Lane

2 Sheets—Sheet 1

T. MEIKLE.
Sulky-Plow.

No. 209,283. Patented Oct. 22, 1878.



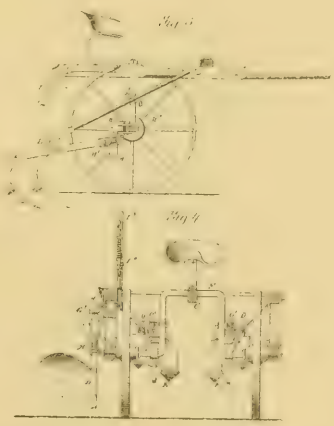
Witnesses.
H. Clippert.
J. H. Mann.

Inventor
by
Attorneys

2 Sheets—Sheet 2

T. MEIKLE.
Sulky-Plow.

No. 209,283. Patented Oct. 22, 1878.

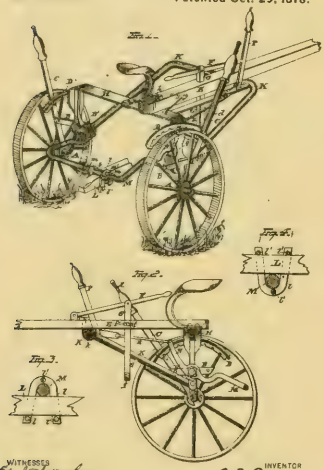


Witnesses
H. Clippert.
J. H. Mann.

Inventor

C. G. PRICE & J. M. MERRITT.
Sulky-Plow.

No. 209,512. Patented Oct. 29, 1878.



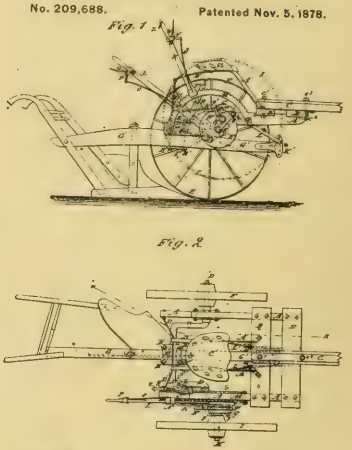
WITNESSES:
Ed. J. Naughton
F. M. Wright.

INVENTOR
C. S. Price,
and J. M. Merritt.
By H. A. Lehmann, ATTORNEY.

2 Sheets—Sheet 1.

E. T. HUNTER.
Sulky Breaking-Plow.

No. 209,688. Patented Nov. 5, 1878.



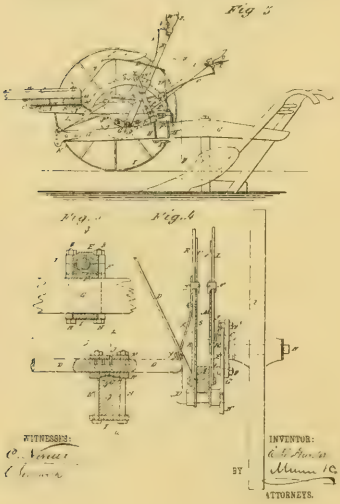
WITNESSES:
C. Neuer
E. Hedgcock

INVENTOR:
E. T. Hunter
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 2

E. T. HUNTER.
Sulky Breaking-Plow.

No. 209,688. Patented Nov. 5, 1878.

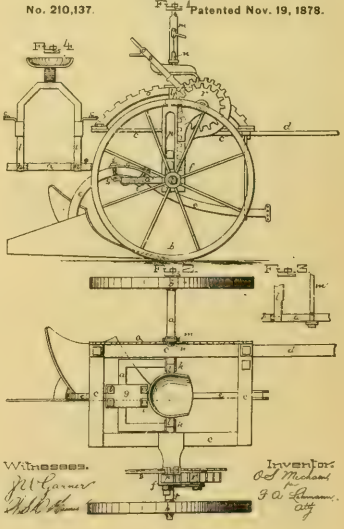


WITNESSES:
C. Neuer
E. Neuer

INVENTOR:
E. T. Hunter
BY Munn & Co.
ATTORNEYS.

O. S. MECHAM.
Wheel-Plow.

No. 210,137. Patented Nov. 19, 1878.

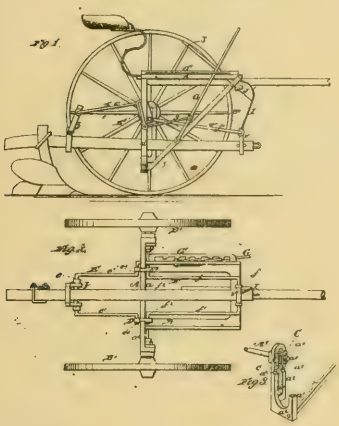


Witnesses.
W. H. Garner
W. H. Brown

Inventor
Orl Mecham
for
F. A. Lehmann
Atty

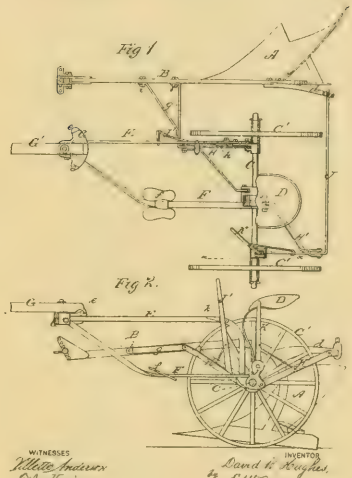
G. P. PRICE.
Plow Sulky and Cultivator.

No. 210,147. Patented Nov. 19, 1878.



D. W. HUGHES.
Riding-Plow.

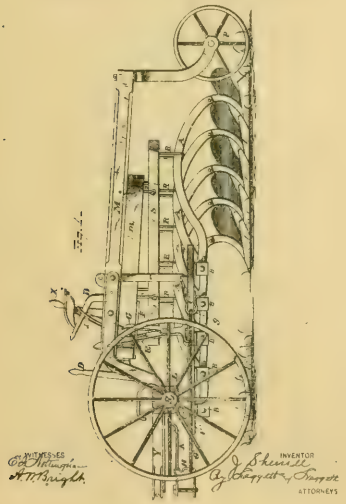
No. 210,425. Patented Dec. 3, 1878



2 Sheets—Sheet 1.

J. SHERRILL
Gang Cultivator and Seeder.

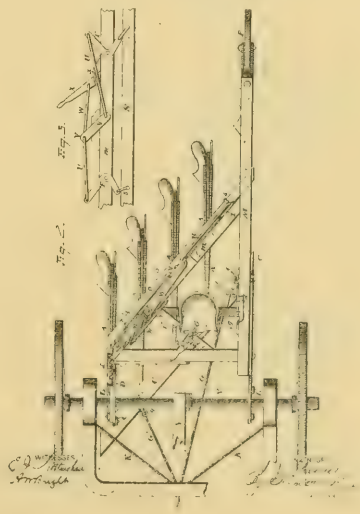
No. 210,569. Patented Dec. 3, 1878.



2 Sheets—Sheet 2

J. SHERRILL
Gang Cultivator and Seeder.

No. 210,569. Patented Dec. 3, 1878.



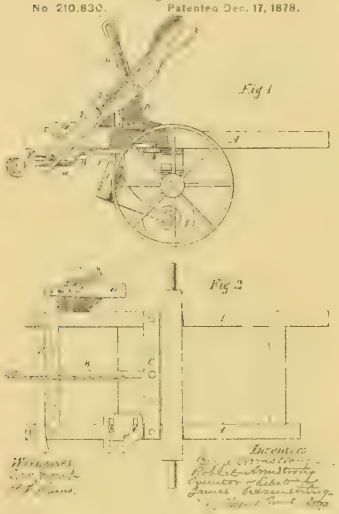
2 Sheets—Sheet 1.

G. ARMSTRONG & J. ARMSTRONG, Jr.

R. ARMSTRONG, Executor of J. ARMSTRONG, Jr., dec'd.

Gang-Plow.

No. 210,830. Patented Dec. 17, 1878.



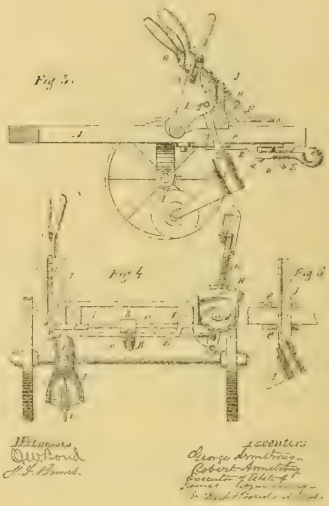
2 Sheets—Sheet 2.

G. ARMSTRONG & J. ARMSTRONG, Jr.

R. ARMSTRONG, Executor of J. ARMSTRONG, Jr., dec'd.

Gang-Plow.

No. 210,830. Patented Dec. 17, 1878.

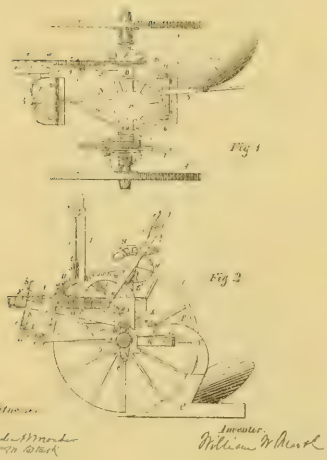


4 Sheets—Sheet 1.

W. W. MARSH.

Sulky-Plow.

No. 210,867. Patented Dec. 17, 1878.

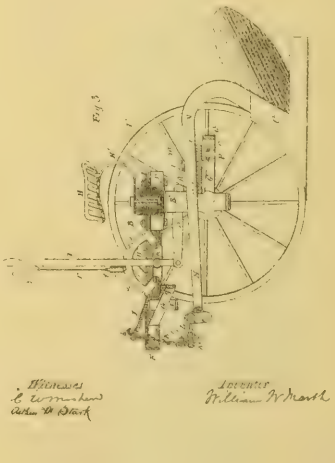


4 Sheets—Sheet 2.

W. W. MARSH.

Sulky-Plow.

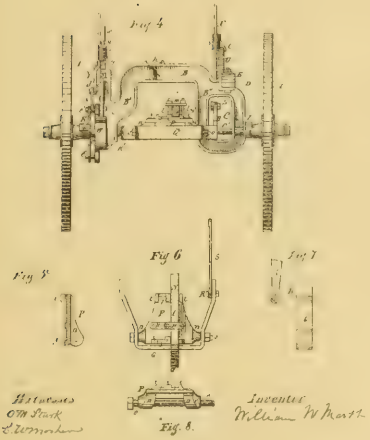
No. 210,867. Patented Dec. 17, 1878.



4 Sheets—Sheet 3.

W. W. MARSH.
Sulky-Plow.

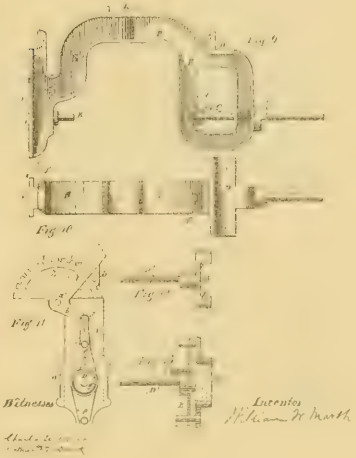
No. 210,867. Patented Dec. 17, 1878.



4 Sheets—Sheet 4

W. W. MARSH
Sulky-Plow.

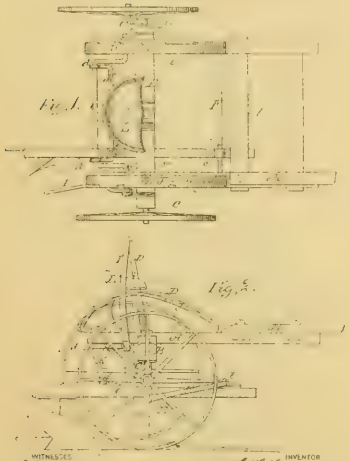
No. 210,867. Patented Dec. 17, 1878.



2 Sheets—Sheet 1

H. H. CANADAY.
Plow.

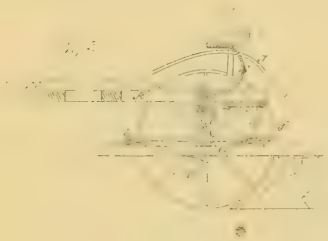
No. 210,992. Patented Dec. 17, 1878.



2 Sheets—Sheet 2

H. H. CANADAY.
Plow.

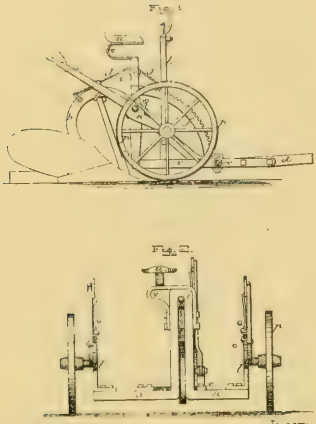
No. 210,992. Patented Dec. 17, 1878.



PLOWS-WHEEL OR SULKY.

2 Sheets—Sheet 1

G. W. GREENER
Sulky-Plow
No. 211,007. Patented Dec. 17, 1878.

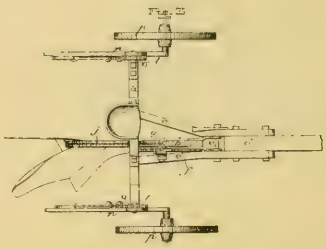


Witnesses:
J. W. Garner
W. S. D. Bennett

Inventor
Geo. W. Greener
for
P. A. Rhiman
Atty.

2 Sheets—Sheet 2

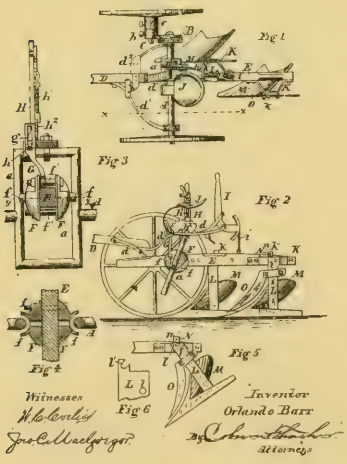
G. W. GREENER
Sulky-Plow.
No. 211,007. Patented Dec. 17, 1878.



Witnesses.
J. W. Garner
W. S. D. Bennett

Inventor
Geo. W. Greener
for
P. A. Rhiman
Atty.

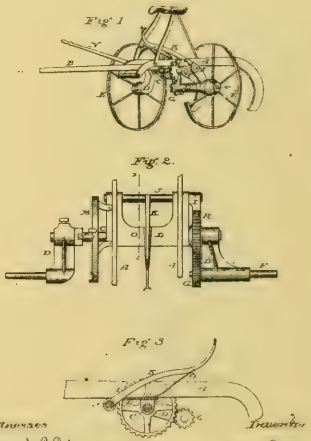
O. BARR.
Sulky Gang-Plow.
No. 211,372. Patented Jan. 14, 1879.



Witnesses
H. Clerk
Jos. C. Wachsinger

Inventor
Orlando Barr
By C. Wm. Baker
Attorneys

J. PRICE.
Sulky-Plow.
No. 211,425. Patented Jan. 14, 1879.



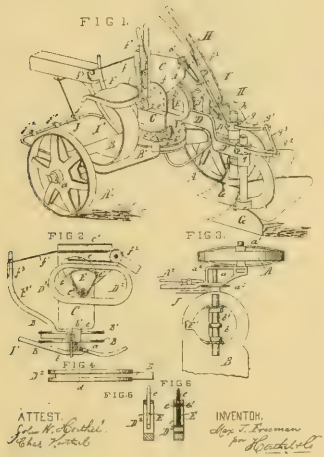
Witnesses
Edwards S. Bulmer
William S. LeBoll

Inventor
Jacob Price

2 Sheets—Sheet 1

M. J. FREEMAN.
Sulky-Plow.

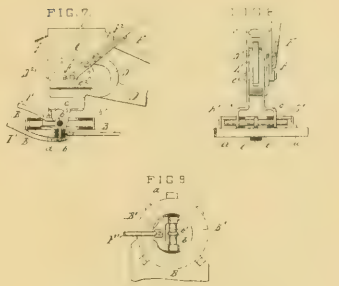
No. 211,626. Patented Jan. 28, 1879.



2 Sheets—Sheet 2

M. J. FREEMAN.
Sulky-Plow.

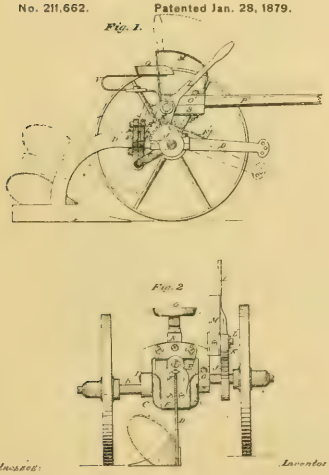
No. 211,626. Patented Jan. 28, 1879.



2 Sheets—Sheet 1.

F. B. HUNT.
Sulky-Plow.

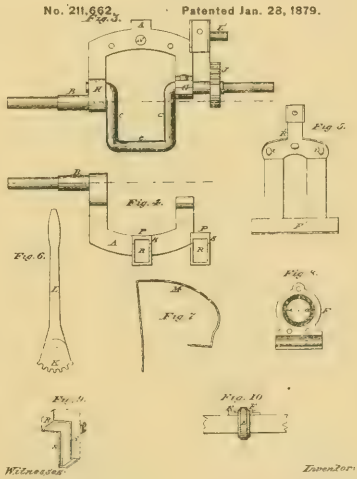
No. 211,662. Patented Jan. 28, 1879.



2 Sheets—Sheet 2.

F. B. HUNT.
Sulky-Plow.

No. 211,662. Patented Jan. 28, 1879.

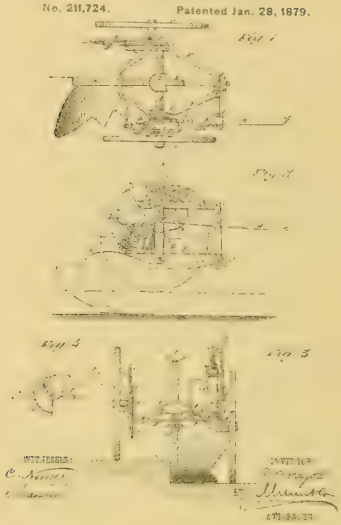


L. BROWN
Sulky-Plow.

No. 211,696 Patented Jan. 28, 1879.

D. O. FOSGATE.
Sulky-Plow.

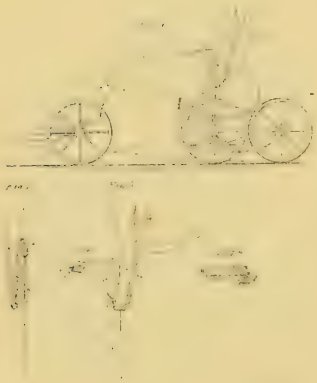
No. 211,724. Patented Jan. 28, 1879.



2 Sheets—Sheet 1.

A. D. BLANCHARD
Wheel-Plow.

No. 211,956. Patented Feb. 4, 1879.

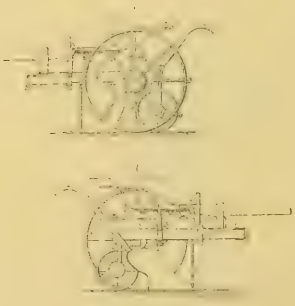


WITNESSES:

INVENTOR:
A. D. Blanchard
BY

C. KIMBALL.
Wheel-Plow.

No. 212,234. Patented Feb 11, 1879.



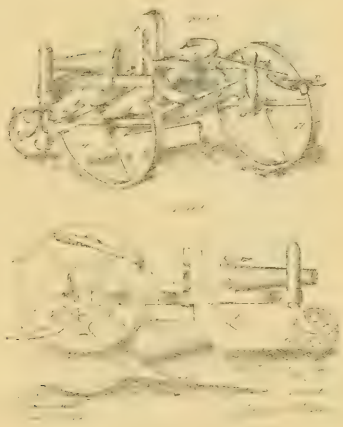
2 Sheets—Sheet 2

G. KIMBALL.
Wheel-Plow.

No. 212,234. Patented Feb. 11, 1879.

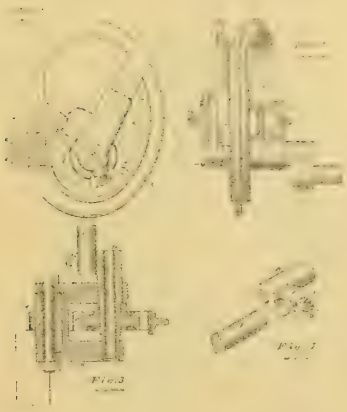
J. E. WHITNEY.
Sulky-Plow.

No. 212,341. Patented Feb. 18, 1879.



C. F. SEARCH. 2 Sheets—Sheet 1
Sulky-Plow.

No. 212,750 Patented Feb. 25, 1879.

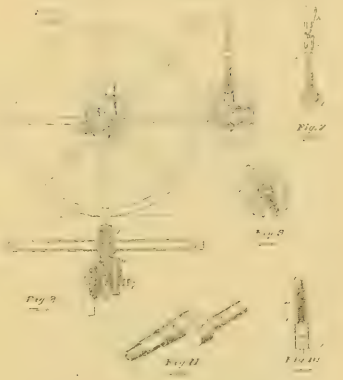


Witnesses:

Inventor:
Eugene F. Search
By Eugene Wm. Lee
Attorneys.

C. F. SEARCH. 2 Sheets—Sheet 2
Sulky Plow.

No. 212,750. Patented Feb. 25, 1879.

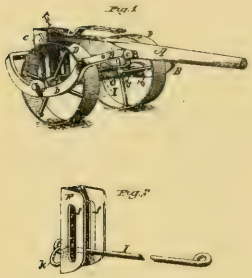


Witnesses:

Inventor:
Eugene F. Search
By Eugene Wm. Lee
Attorneys

B. FRANKLIN.
Plow and Farm Truck.

No. 212,919 Patented Mar. 4, 1879.

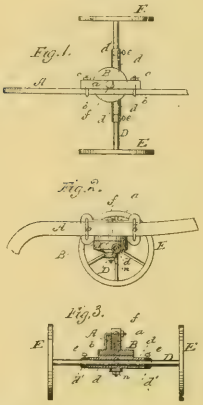


WITNESSES
John R. Ewin
Geo. E. Foulton

INVENTOR
Benjamin Franklin
By E. W. Anderson
ATTORNEY

J. R. CUMMINS.
Attachment for Wheel-Plows.

No. 213,178 Patented Mar. 11, 1879.

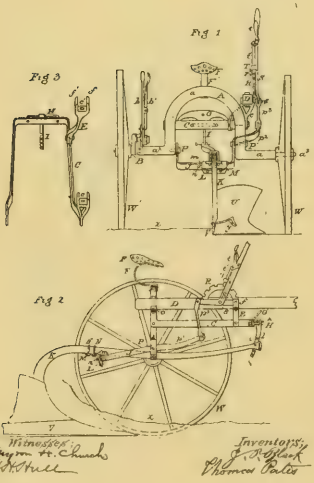


WITNESSES
Benj. Shelley
F. J. Weise

INVENTOR
John R. Cummins
By E. W. Anderson
ATTORNEY

J. P. BLACK & T. PATES.
Sulky-Plow.

No. 213,614. Patented Mar. 25, 1879.

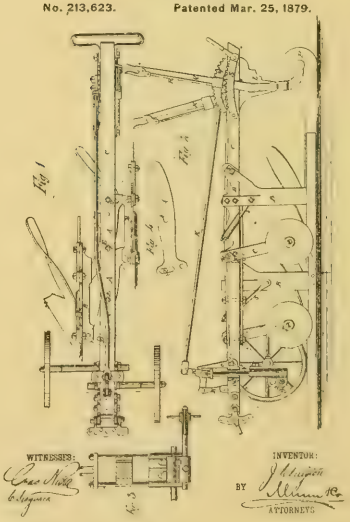


Witnesses:
Byron H. Church
G. H. Hull

Inventors:
J. P. Black
Thomas Pates

J. CLAYTON.
Gang-Plow.

No. 213,623. Patented Mar. 25, 1879.

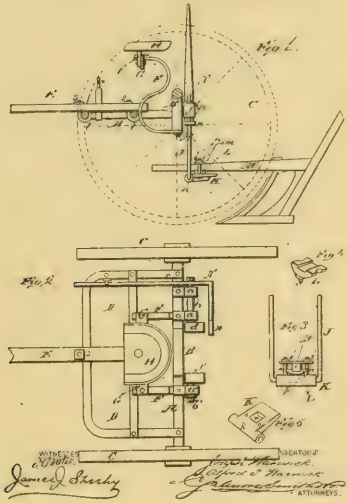


WITNESSES:
Chas. Mills
C. Sequin

INVENTOR:
J. Clayton
BY
Williams & Co
ATTORNEYS

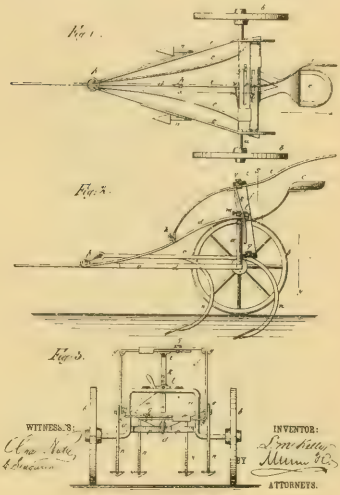
J. & A. T. WARWICK.
Plow-Sulky.

No. 213,717. Patented Mar. 25, 1879.



L. M. KELLY.
Gang-Plow.

No. 213,906. Patented April 1, 1879.



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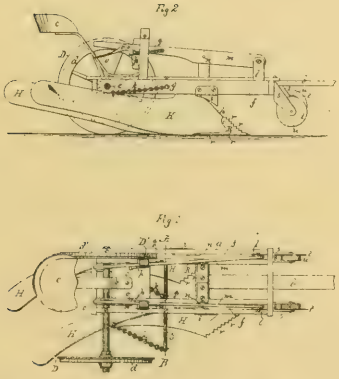
T. E. JEFFERSON.
Sulky-Plow.

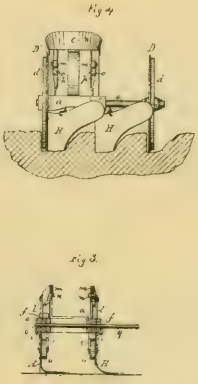
No. 214,396. Patented April 15, 1879.



2 Sheets—Sheet 2

T. E. JEFFERSON.
Sulky-Plow

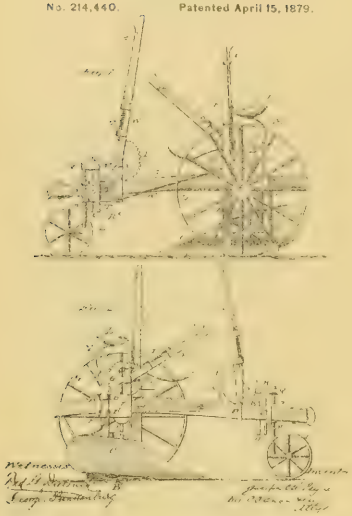
No. 214,396. Patented April 15, 1879.



2 Sheets—Sheet 1

J. M. PAYNE.
Sulky-Plow.

No. 214,440. Patented April 15, 1879.



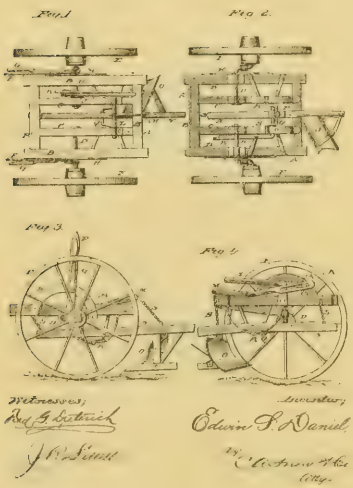
2 Sheets—Sheet 2

J. M. PAYNE
Sulky-Plow

No. 214,440. Patented April 15, 1879.

E. S. DANIEL.
Sulky Plow.

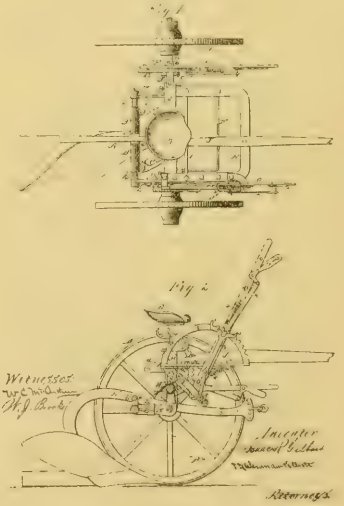
No. 215,268. Patented May 13, 1879.



3 Sheets—Sheet 1.

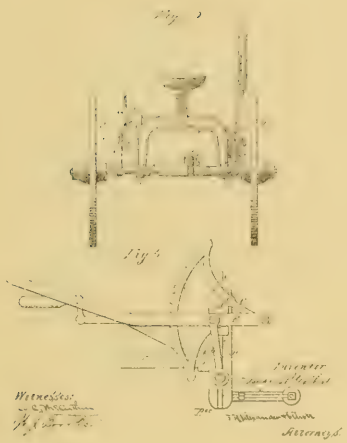
I. R. GILBERT
Sulky-Plow.

No. 215,346. Patented May 13, 1879.



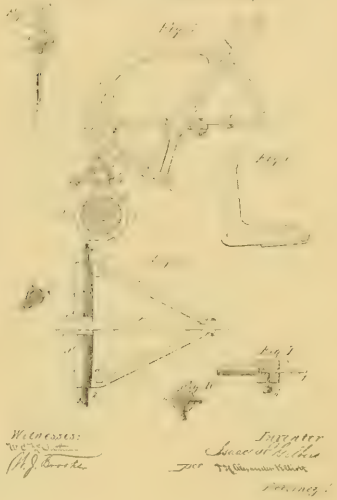
3 Sheets—Sheet 2

J. R. GILBERT.
Sulky-Plow.
No. 215,346. Patented May 13, 1879.

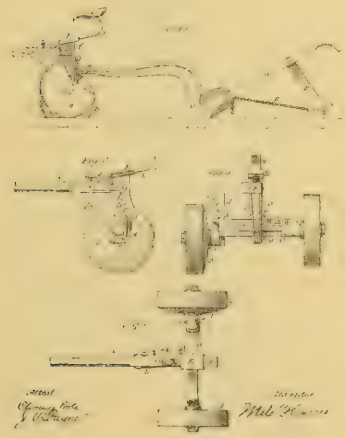


3 Sheets—Sheet 3

J. R. GILBERT
Sulky-Plow
No. 215,346. Patented May 13, 1879.



M. HARRIS.
Farm-Truck or Draft Attachment for Plow or Harrow.
No. 215,918. Patented May 27, 1879.



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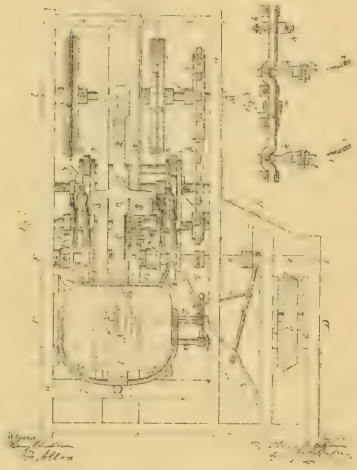
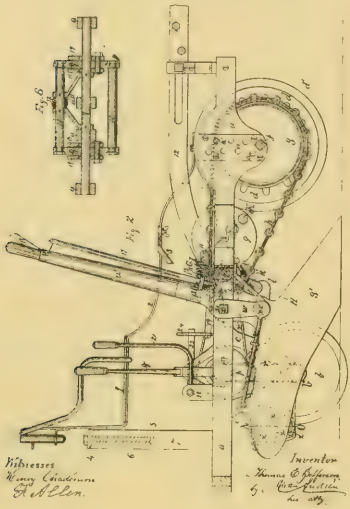
T. E. JEFFERSON
Sulky-Plow.
No. 215,929. Patented May 27, 1879.



4 Sheets—Sheet 2.

T. E. JEFFERSON.
Sulky-Plow.
No. 215,929. Patented May 27, 1879.



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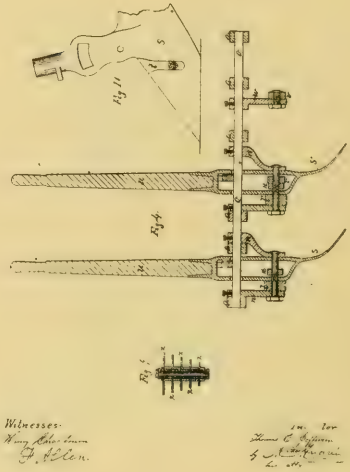
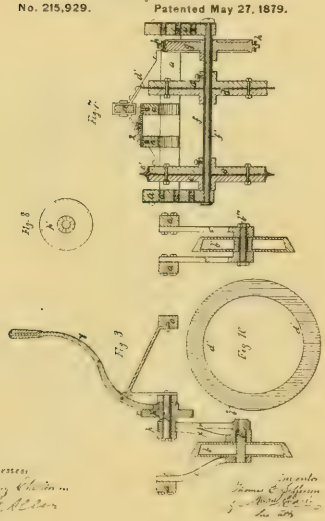
T. E. JEFFERSON.
Sulky-Plow.
No. 215,929. Patented May 27, 1879.

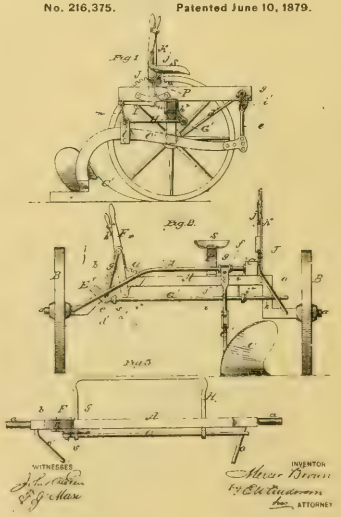


4 Sheets—Sheet 4

T. E. JEFFERSON.
Sulky-Plow.
No. 215,929. Patented May 27, 1879.



M. BROWN.
Sulky-Plow Attachment.
No. 216,375. Patented June 10, 1879.



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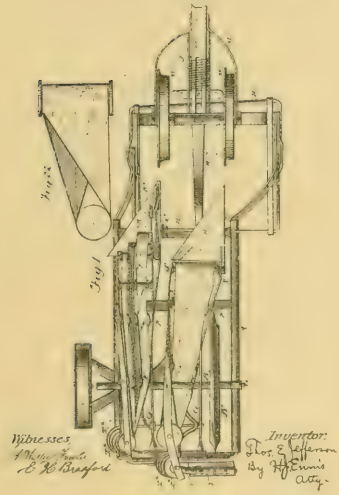
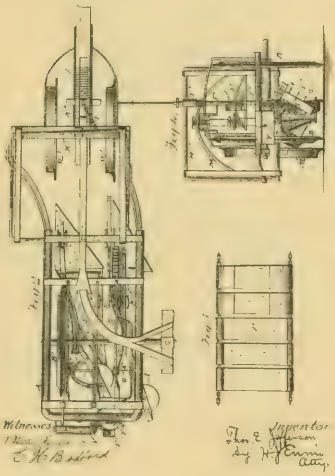
T. E. JEFFERSON.
Sulky-Plow.
No. 216,415. Patented June 10, 1879.



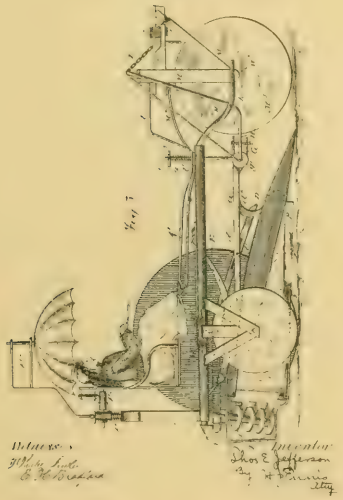
6 Sheets—Sheet 2

T. E. JEFFERSON.
Sulky Plow.
No. 216,415. Patented June 10, 1879.



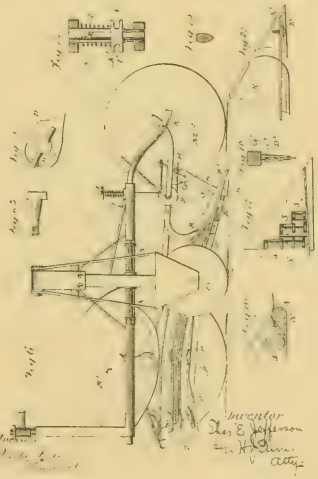
6 Sheets—Sheet 3.

T. E. JEFFERSON.
Sulky-Plow.
No. 216,415. Patented June 10, 1879.



6 Sheets—Sheet 4

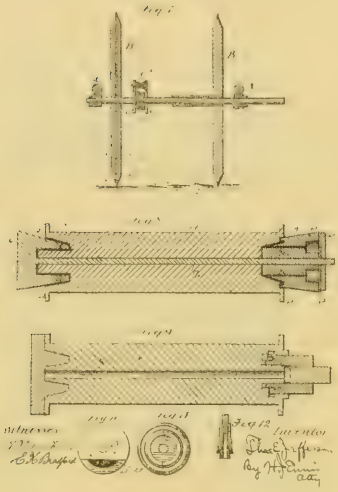
T. E. JEFFERSON.
Sulky-Plow.
No. 216,415. Patented June 10, 1879.



6 Sheets—Sheet 5

T. E. JEFFERSON.
Sulky-Plow.

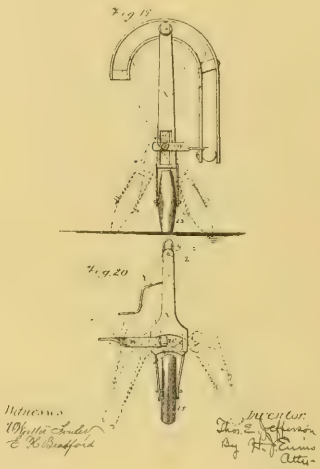
No. 216,415. Patented June 10, 1879.



6 Sheets—Sheet 6

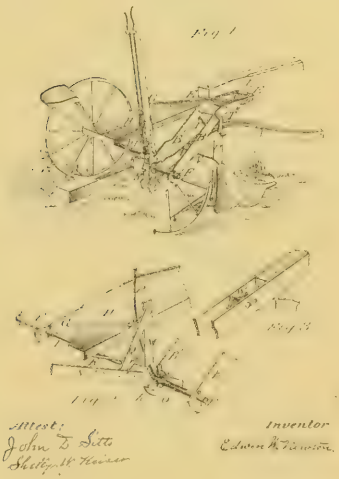
T. E. JEFFERSON.
Sulky-Plow.

No. 216,415. Patented June 10, 1879.



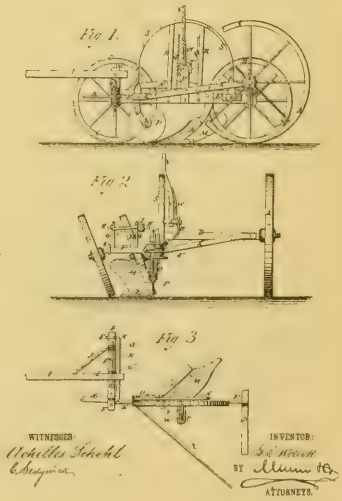
E. W. NEWTON.
Sulky-Plow.

No. 216,442. Patented June 10, 1879.



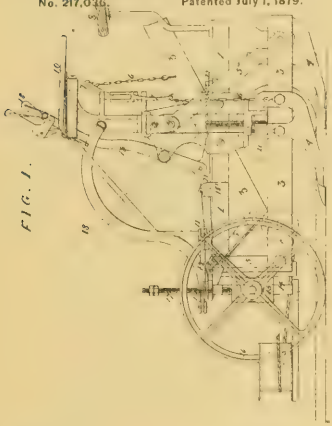
G. E. WOLCOTT.
Riding-Plow.

No. 216,714. Patented June 17, 1879.



3 Sheets—Sheet 1

S. E. WOODS & A. H. WHEWELL.
Agricultural Implement.
No. 217,036. Patented July 1, 1879.

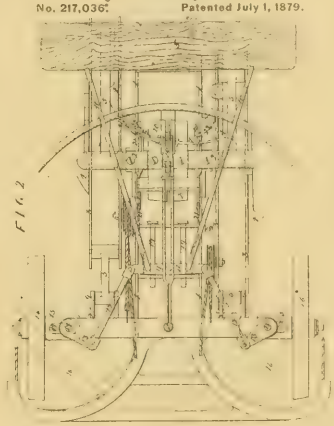


Witnesses:
John C. Trenbridge
C. B. Moore

Inventors:
Samuel Edward Woods
Arthur Henry Whewell
by their attorney
A. v. Briesen

3 Sheets—Sheet 2

S. E. WOODS & A. H. WHEWELL.
Agricultural Implement.
No. 217,036. Patented July 1, 1879.

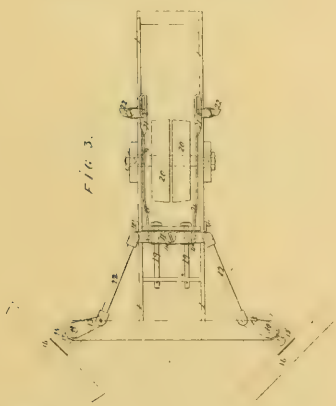


Witnesses
John C. Trenbridge
C. B. Moore

Inventors:
Samuel Edward Woods
Arthur Henry Whewell
by their attorney
A. v. Briesen

3 Sheets—Sheet 3

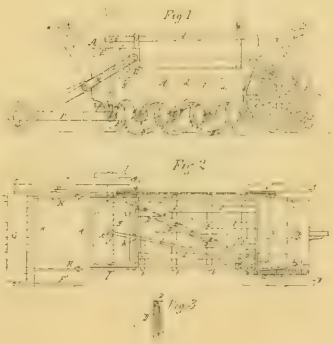
S. E. WOODS & A. H. WHEWELL.
Agricultural Implement.
No. 217,036. Patented July 1, 1879.



Witnesses:
John C. Trenbridge
C. B. Moore

Inventors:
Samuel Edward Woods
Arthur Henry Whewell
by their attorney
A. v. Briesen

E. SCHLAG.
Agricultural Implement.
No. 217,491. Patented July 15, 1879.

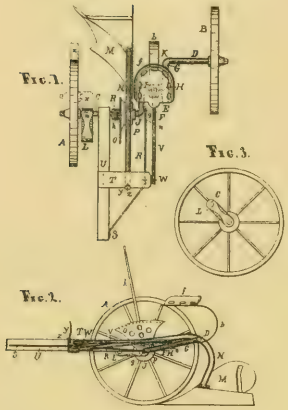


Witnesses
C. R. McCormac
N. Cowles

Inventor
Edward Schlag
By Keidley & Co
Attys.

J. H. MOORE.
Sulky-Plow.

No. 217,893. Patented July 29, 1879.



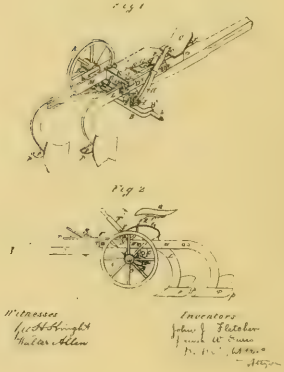
WITNESSES.
A. G. Mosey
F. W. Fowler

INVENTOR.
Jesse H. Moore by
J. L. Chapin Atty

2 Sheets—Sheet 1

J. J. PLETCHER & J. W. SURSA.
Gang-Plow.

No. 218,250. Patented Aug. 5, 1879.



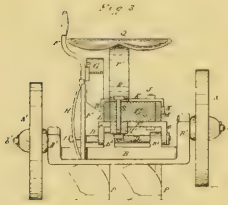
Witnesses
Geo H. Knight
Walter Allen

Inventors
John J. Fletcher
James W. Sursa
By Munn & Co.
Attys

2 Sheets—Sheet 2

J. J. PLETCHER & J. W. SURSA.
Gang-Plow.

No. 218,250. Patented Aug. 5, 1879.



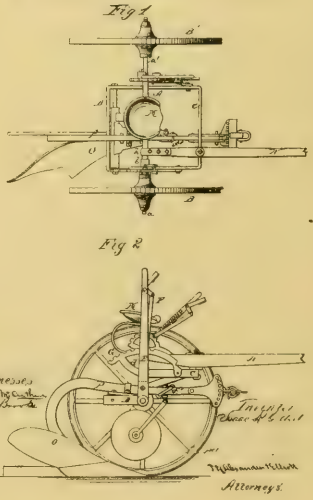
Witnesses:
Geo H. Knight
Walter Allen

Inventors:
John J. Fletcher
James W. Sursa
By Munn & Co.
Attys.

3 Sheets—Sheet 1

I. R. GILBERT.
Sulky-Plow.

No. 218,516. Patented Aug. 12, 1879.



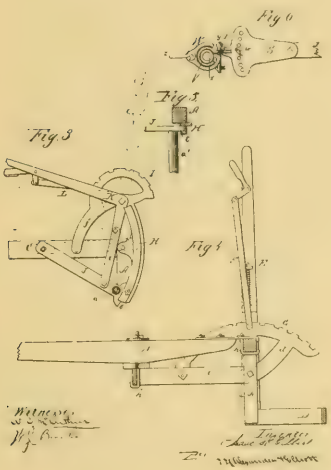
Witnesses
W. C. Smith
W. J. Bennett

Inventor
Isaac R. Gilbert
By Williamson & Helm
Attorneys

3 Sheets—Sheet 7

I. R. GILBERT.
Sulky-Plow.

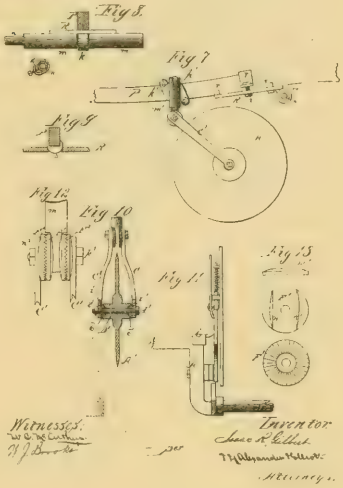
No. 218,516. Patented Aug. 12, 1879.



3 Sheets—Sheet 8

I. R. GILBERT
Sulky-Plow.

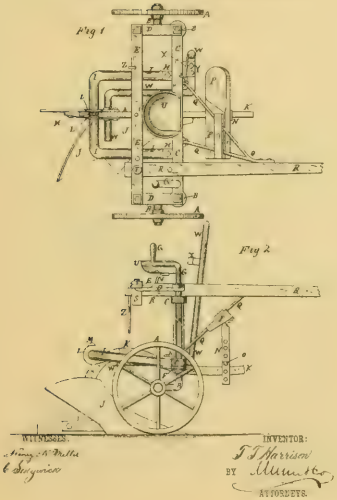
No. 218,516. Patented Aug. 12, 1879.



3 Sheets—Sheet 1.

T. T. HARRISON.
Sulky-Plow.

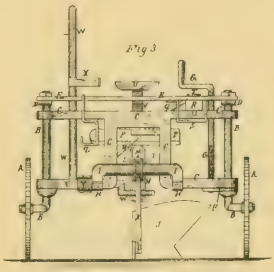
No. 218,734. Patented Aug. 19, 1879.



3 Sheets—Sheet 2.

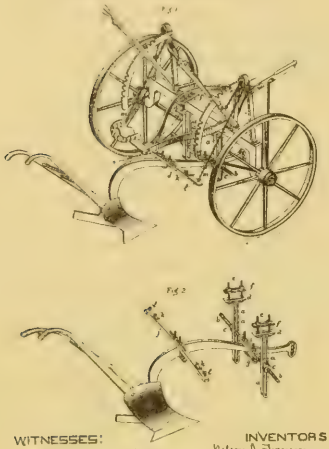
T. T. HARRISON.
Sulky-Plow.

No. 218,734. Patented Aug. 19, 1879.



N. J. TRENERY & J. L. SISLEY.
Sulky-Cultivator.

No. 218,840. Patented Aug. 26, 1879.

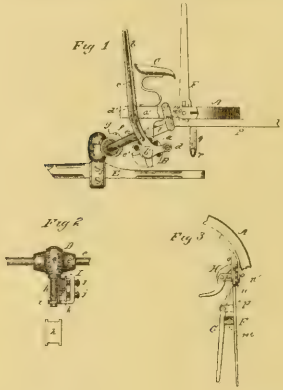


WITNESSES:
Wm. Souter
Alex. Porter Morse

INVENTORS:
Nelson J. Trenery.
and John L. Sisley
By Paine Brown
Attorneys.

M. CAHILL.
Sulky-Plow.

No. 218,856. Patented Aug. 26, 1879.

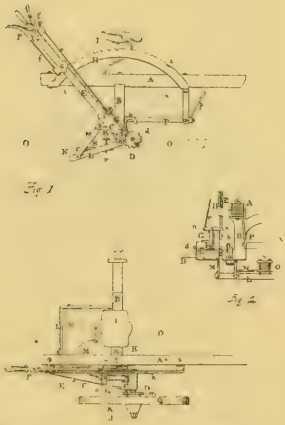


WITNESSES
William Daniels
Wm. C. Hilphant

INVENTOR
Montemier Cahill.
per Chas. H. Fuller
Attorney.

W. P. BETTENDORF.
Cultivator and Plow.

No. 219,381. Patented Sept. 9, 1879.

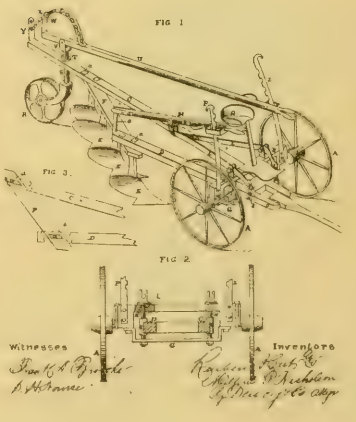


Witnesses
Geo. W. Fleming
Henry Barnard

Inventor
William P. Bettendorf
by G. H. Hill Atty.

R. HART & M. P. NICHOLSON.
Gang-Plow.

No. 219,467. Patented Sept. 9, 1879.

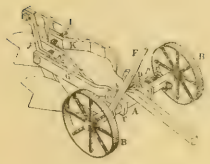


Witnesses
Geo. H. Bright
D. H. Crane

Inventors
Robert Hart
Milton P. Nicholson
by Dyer & Co. Atty

BELOUNE.
Gang-Plow.

No. 219,565. Patented Sept. 16, 1879.

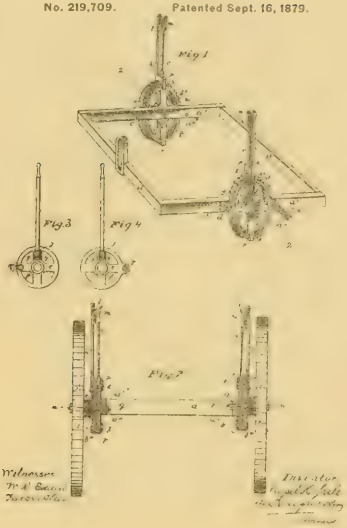


Witnesses:
W. Floyd Clackill
W. F. Clark.

Inventor:
Joseph Belloune
By J. L. Boone
Atty

A. H. GALE.
Sulky-Plow.

No. 219,709. Patented Sept. 16, 1879.

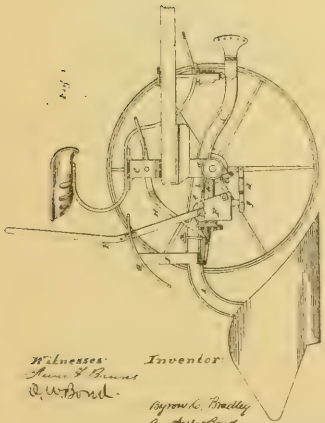


Witnesses
Inventor

2 Sheets—Sheet 1.

B. C. BRADLEY.
Sulky-Plow.

No. 219,799. Patented Sept. 23, 1879.

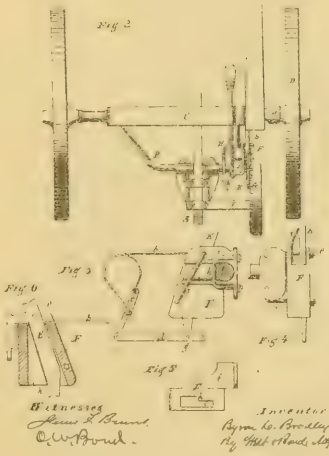


Witnesses:
Inventor:
Byron C. Bradley
By Holt & Bond
Attys.

2 Sheets—Sheet 2

B. C. BRADLEY.
Sulky-Plow

No. 219,799. Patented Sept. 23, 1879.

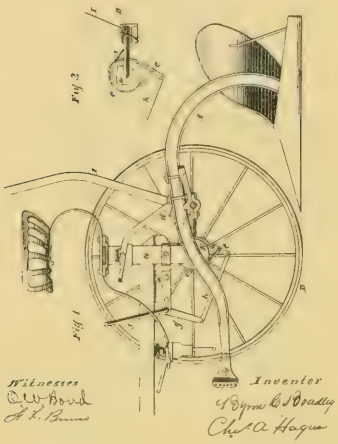


Witnesses
Inventor
Byron C. Bradley
By Holt & Bond, Attys.

2 Sheets—Sheet 1

B. C. BRADLEY & C. A. HAGUE.
Sulky-Plow.

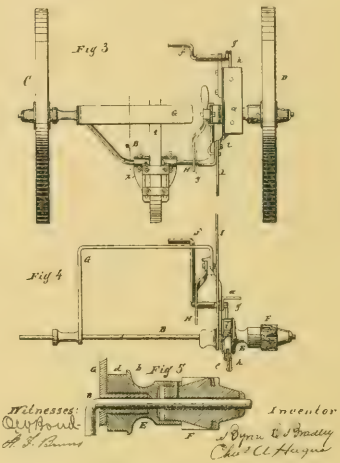
No. 219,800. Patented Sept. 23, 1879.



2 Sheets—Sheet 2.

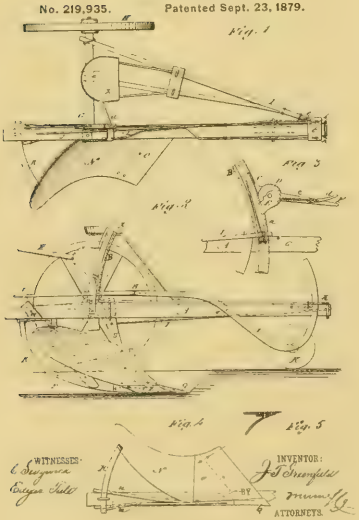
B. C. BRADLEY & C. A. HAGUE.
Sulky-Plow.

No. 219,800. Patented Sept. 23, 1879.



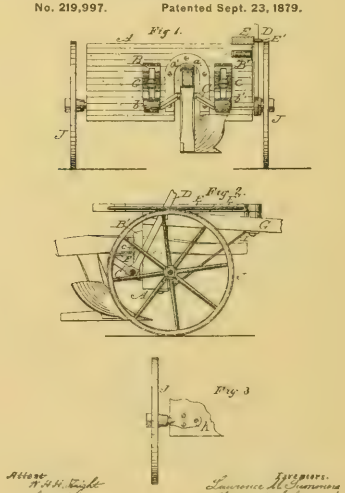
J. T. GREENFIELD.
Plow.

No. 219,935. Patented Sept. 23, 1879.



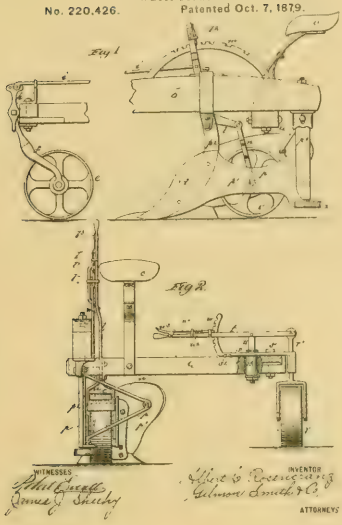
L. M. SUMMERS & M. WILSON.
Sulky-Plow.

No. 219,997. Patented Sept. 23, 1879.



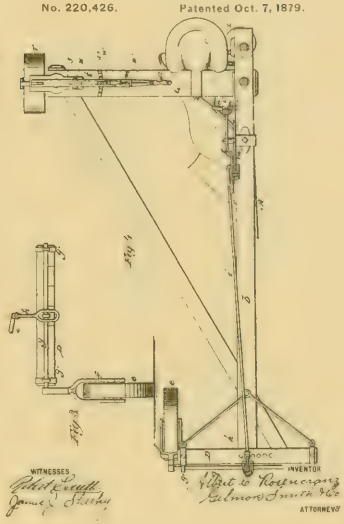
2 Sheets—Sheet 1

A. C. ROSENCRANZ.
Wheel-Plow.
No. 220,426. Patented Oct. 7, 1879.



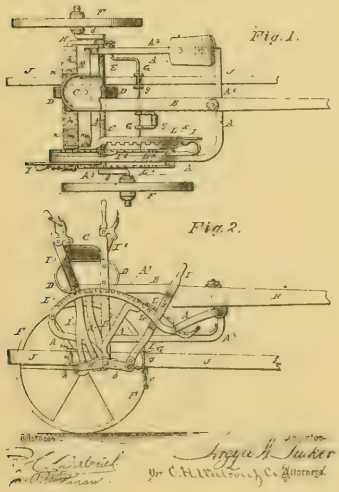
2 Sheets—Sheet 2

A. C. ROSENCRANZ.
Wheel-Plow.
No. 220,426. Patented Oct. 7, 1879.



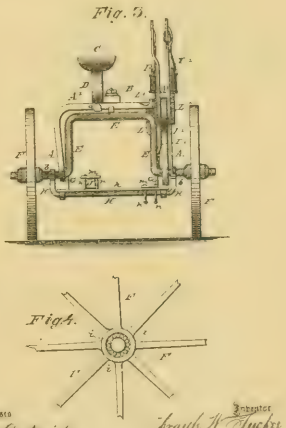
2 Sheets—Sheet 1.

A. W. TUCKER.
Plow.
No. 220,446. Patented Oct. 7, 1879.



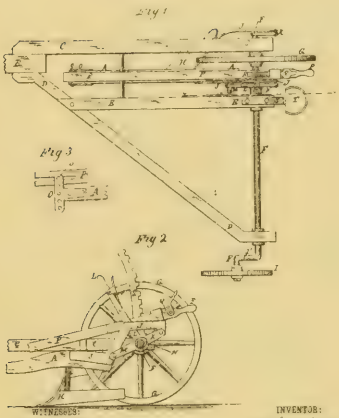
2 Sheets—Sheet 2

A. W. TUCKER.
Plow.
No. 220,446. Patented Oct. 7, 1879.



W. J. MEHARRY.
Sulky-Plow.

No. 220,633. Patented Oct. 14, 1879.

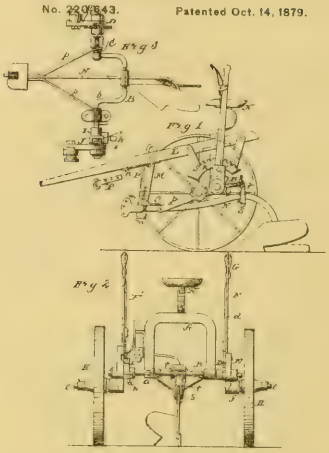


WITNESSES:
Henry H. Miller
G. Sidgwick

INVENTOR:
W. J. Meharry
BY Munn & Co.
ATTORNEYS.

W. NEWLIN.
Wheel-Plow.

No. 220,643. Patented Oct. 14, 1879.

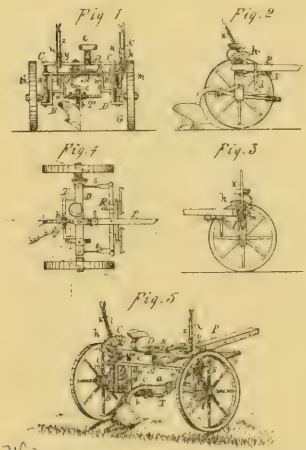


WITNESSES
A. L. Conrad
R. A. Robinson

INVENTOR
Wm. Newlin
By Alexander & Stetson
ATTORNEYS

F. L. CASE.
Sulky-Plow.

No. 220,701. Patented Oct. 21, 1879.



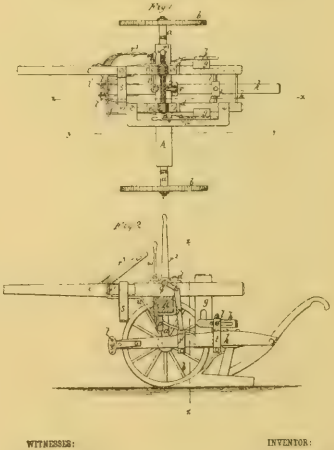
Witness:
A. L. Orwig
Frank W. Ryder

Inventor:
Philo F. Case,
By Thomas G. Orwig, Atty.

2 Sheets—Sheet 1

A. K. MUNSON.
Sulky-Plow.

No. 221,597. Patented Nov. 11, 1879.

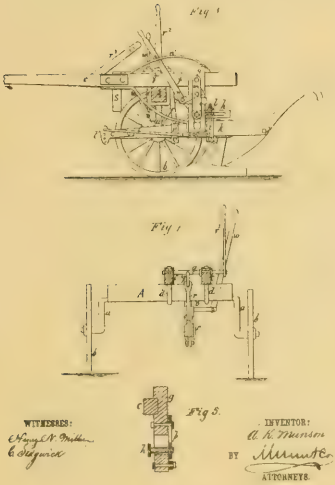


WITNESSES:
Henry H. Miller
G. Sidgwick

INVENTOR:
A. K. Munson
BY Munn & Co.
ATTORNEYS.

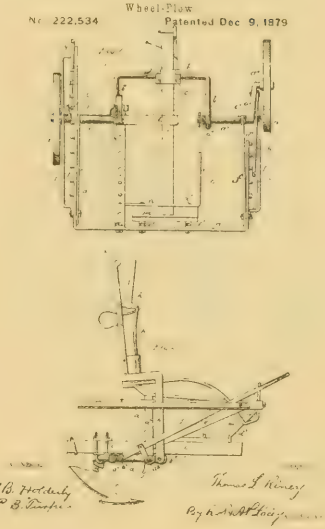
2 Sheets—Sheet 1

A. K. MUNSON.
Sulky-Plow.
No. 221,597. Patented Nov. 11, 1879



2 Sheets—Sheet 1

T. L. RINEY.
Wheel-Plow
No. 222,534 Patented Dec 9, 1879



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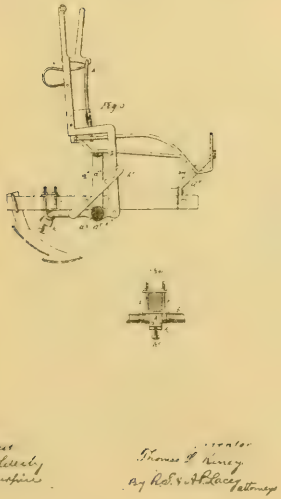
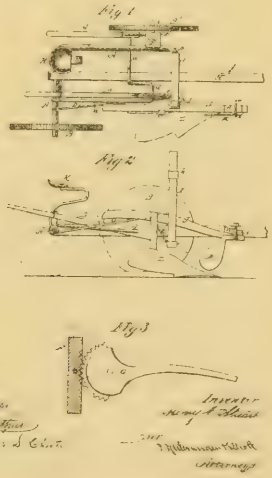
T. L RINEY.
Wheel-Plow.
No. 222,534. Patented Dec. 9, 1879.



H. C. STUART.
Sulky-Plow.
No. 223,186. Patented Dec. 30. 1879



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Sulky-Plow.

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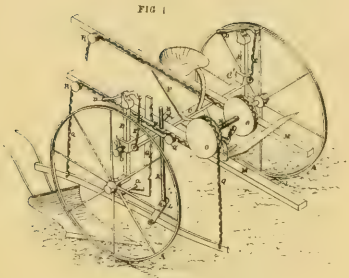
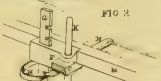




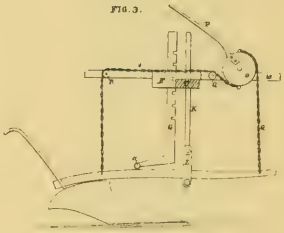
Witnesses
Geo H. Strong
Frank A. Burke

Inventor
Isaac Burke
By Dewey & Co
Attys

2 Sheets—Sheet 2

I. BURKE.
Sulky-Plow.

No. 223,881. Patented Jan. 27, 1880.

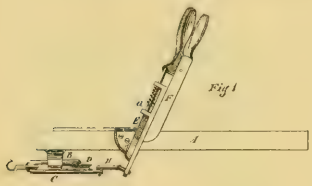


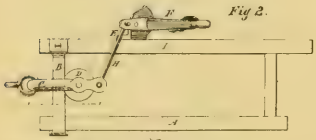
Witnesses
Geo H. Strong.
Frank A. Burke

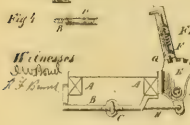
Inventor
Isaac Burke
By Dewey & Co
Attys

G. ARMSTRONG & D. L. MURCHESON.
Gang-Plow.

No. 223,633. Patented Jan. 27, 1880.







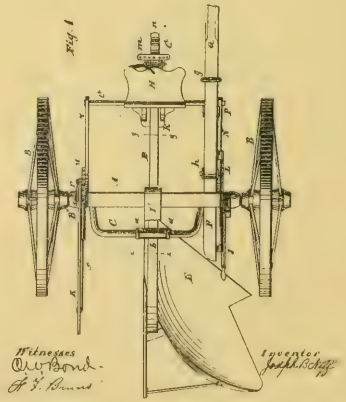
Witnesses
A. F. Bond

Inventors
George Armstrong,
Duncan L. Murcheson,
By Wm. H. Bond Atty

3 Sheets—Sheet 1

J. B. NEFF.
Sulky-Plow.

No. 224,034. Patented Feb. 3, 1880.



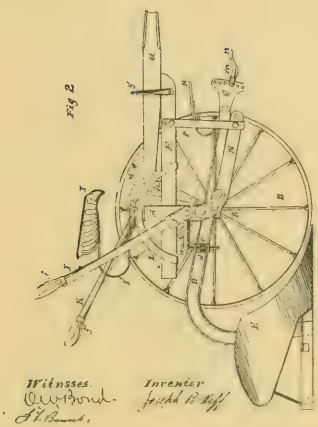
Witnesses
Geo. F. Bond
A. F. Bond

Inventor
Joseph B. Neff

3 Sheets—Sheet 2

J. B. NEFF.
Sulky-Plow.

No. 224,034. Patented Feb. 3, 1880.

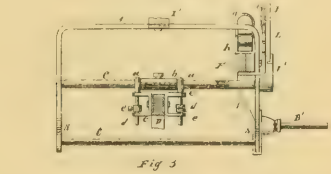


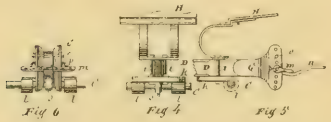
Witnesses.
Inventor
Joseph B Neff

3 Sheets—Sheet 3

J. B. NEFF.
Sulky-Plow.

No. 224,034. Patented Feb. 3, 1880

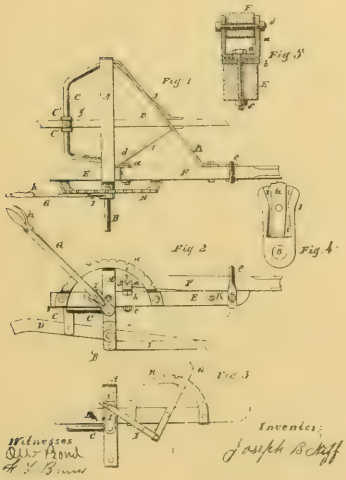




Witnesses
Inventor.
Joseph B Neff

J. B. NEFF.
Sulky-Plow.

No. 224,035. Patented Feb. 3, 1880.

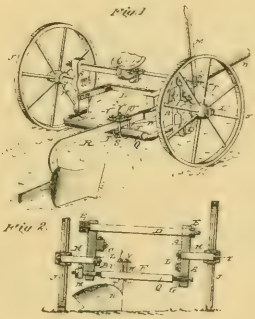


Witnesses
Inventor:
Joseph B Neff

2 Sheets—Sheet 1

B. F. LITZENBERG
Sulky-Plow.

No. 224,095. Patented Feb. 3, 1880

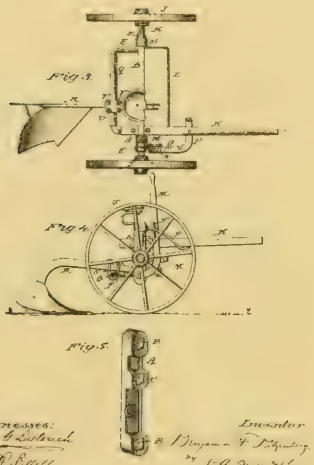


Witnesses:
Inventor:

2 Sheets—Sheet 2

B. F. LITZENBERG.
Sulky-Plow.

No. 224,095. Patented Feb. 3, 1880



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Sulky-Plow.

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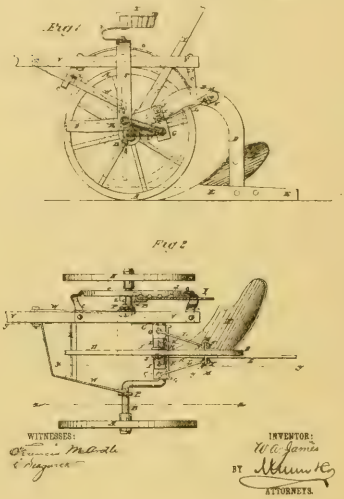
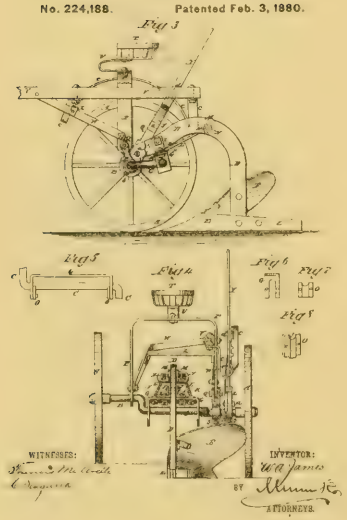


2 Sheets—Sheet 2

W. A. JAMES.
Sulky-Plow.

No. 224,188. Patented Feb. 3, 1880.



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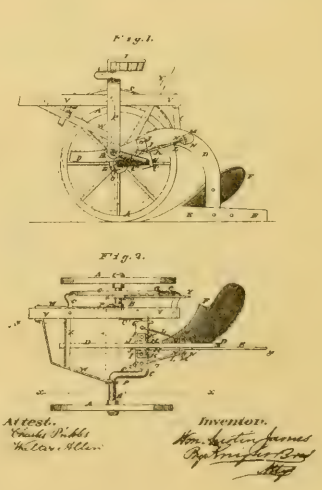
W. A. JAMES
Sulky Plow.

No. 9,501. Reissued Dec. 21, 1880.



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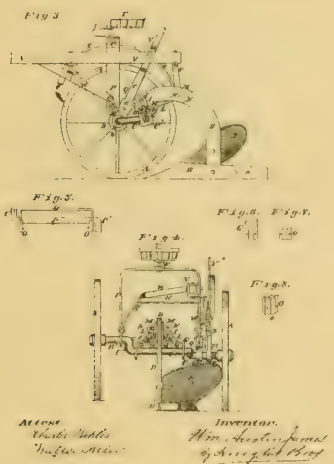
W. A. JAMES.
Sulky-Plow.

No. 9,501. Reissued Dec. 21, 1880.



A. LINDGREN.
Sulky-Plow.

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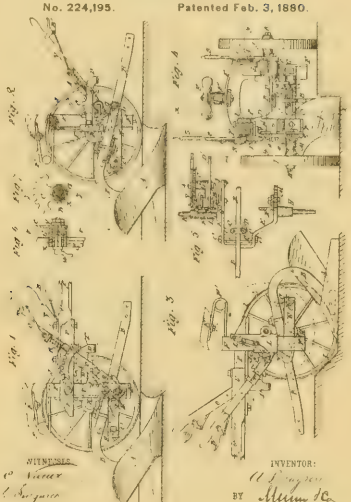
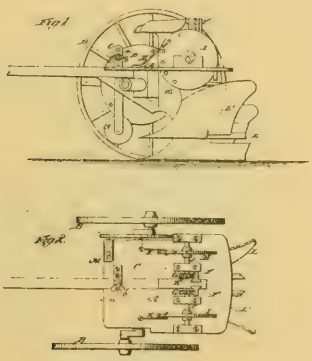


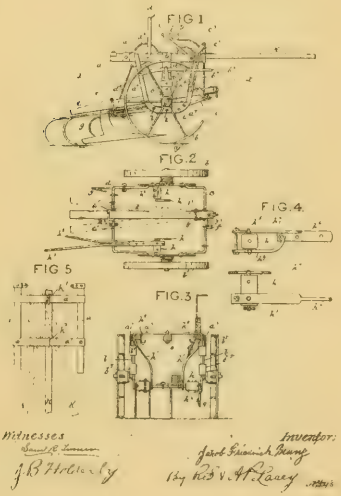
E. G. MATTHEWS.
Plow.

No. 224,455 Patented Feb. 10, 1880.



J. F. MUNZ.
Sulky-Plow.

No. 224,713 Patented Feb. 17, 1880.



J. T. P., & J. A. ELAM.
Sulky-Plow.

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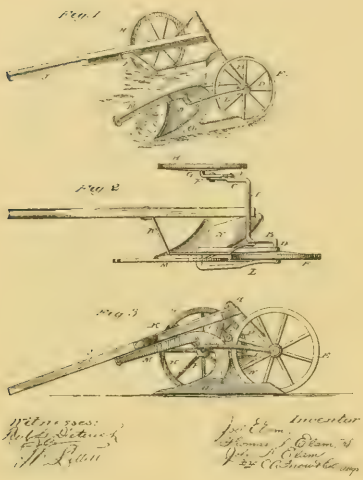
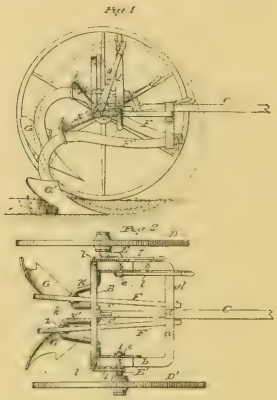


F. C. BRYAN.
Sulky-Plow.

No. 225,105 Patented Mar. 2, 1880



W. D. JAPS.
Sulky-Plow.

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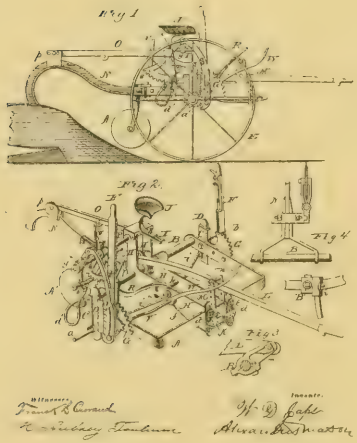
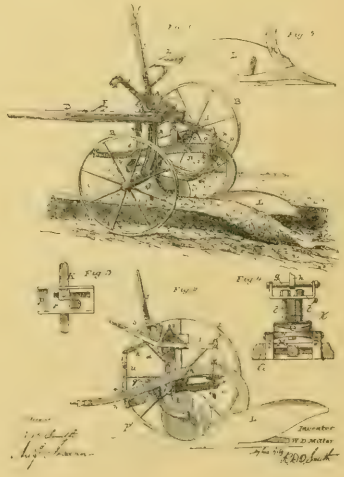


W. D. MILLER.
Wheel-Plow.

No. 225,156. Patented Mar. 2, 1880.



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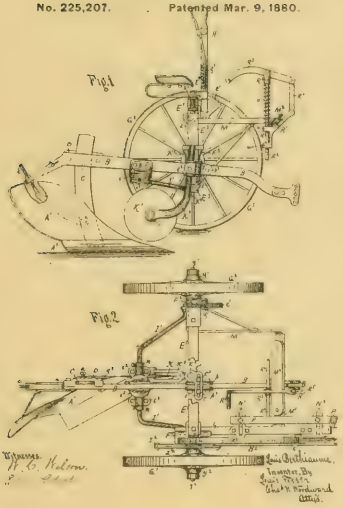
L. BERTHIAUME.
Sulky-Plow.

No. 225,207. Patented Mar. 9, 1880.



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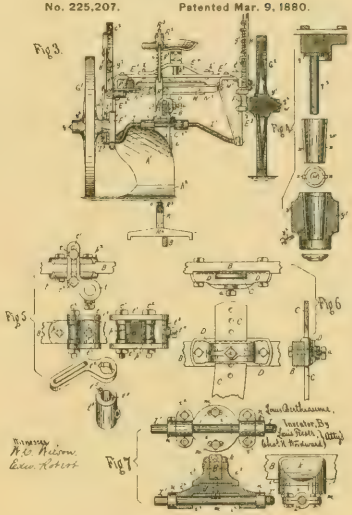
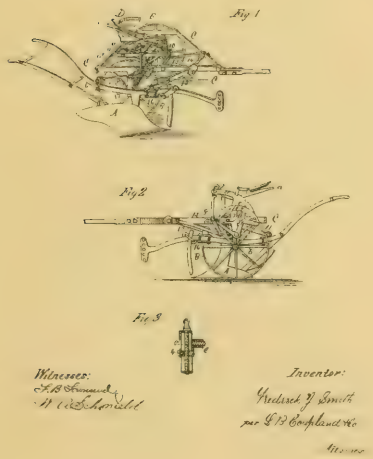
L. BERTHIAUME.
Sulky-Plow.

No. 225,207. Patented Mar. 9, 1880.



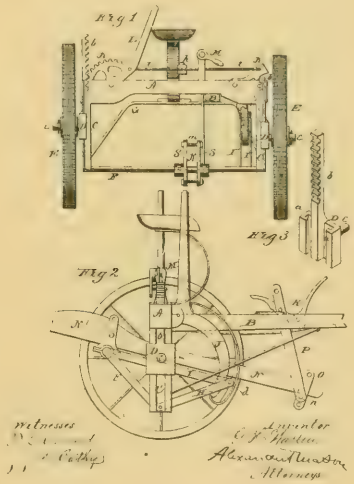
F. J. SMITH
Sulky-Plow.

No. 225,538. Patented Mar. 16, 1880.



G. H. WARREN.
Sulky-Plow.

No. 225,668. Patented Mar. 16, 1880.



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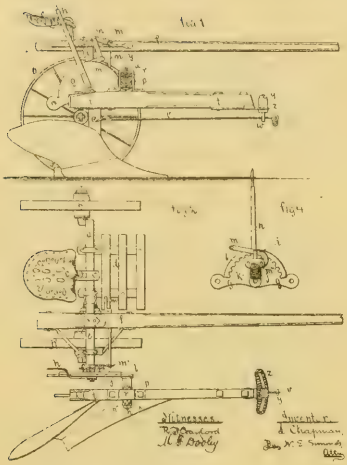
L. CHAPMAN.
Wheel-Plow.

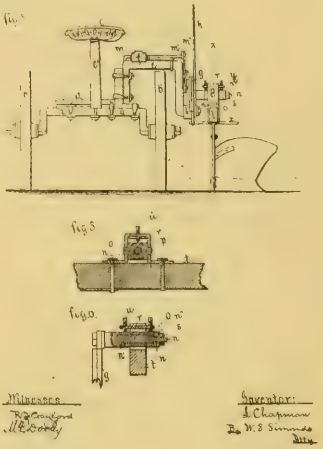
No. 225,744. Patented Mar. 23, 1880.



2 Sheets—Sheet 2

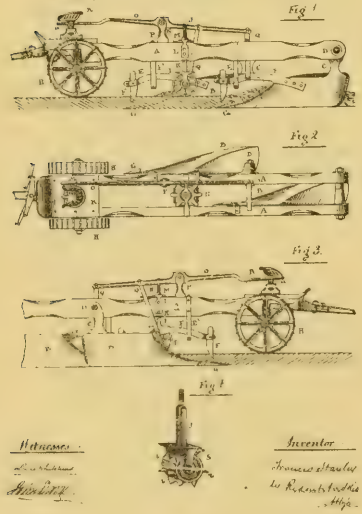
L. CHAPMAN.
Wheel-Plow.

No. 225,744. Patented Mar. 23, 1880.



F. STANLEY.
Plow.

No. 225,769. Patented Mar. 23, 1880.



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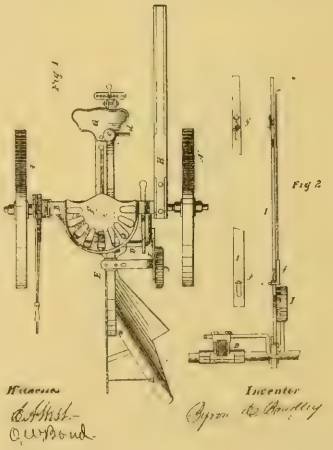
B. C. BRADLEY.
Sulky-Plow.

No. 226,027 Patented Mar. 30, 1880.



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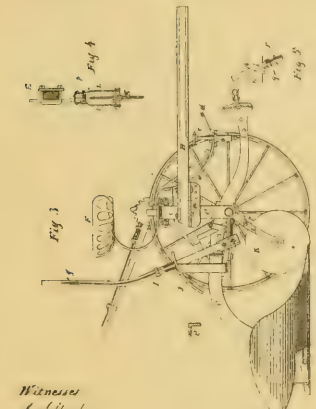
B. C. BRADLEY.
Sulky-Plow.

No. 226,027 Patented Mar. 30, 1880.



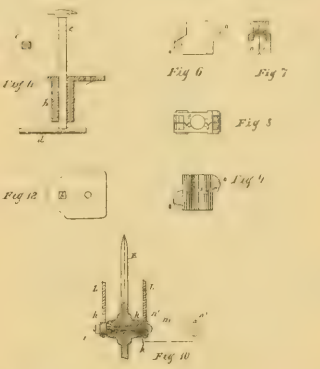
Witnesses
E. A. West
O. W. Bond

Inventor
Byron C. Bradley

3 Sheets—Sheet 3

B. C. BRADLEY.
Sulky-Plow.

No. 226,027 Patented Mar. 30, 1880.



Witnesses
E. A. West
O. W. Bond

Inventor
Byron C. Bradley

2 Sheets—Sheet 1

M. GLASSCOCK.
Plow.

No. 226,609. Patented April 20, 1880.

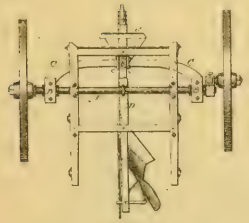


Fig 1

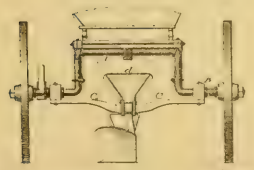


Fig. 2.

Witnesses:
Edward West
George W. Tatum

Inventor
Marion Glasscock

2 Sheets—Sheet 2

M. GLASSCOCK.
Plow.

No. 226,609. Patented April 20, 1880.

Fig 3

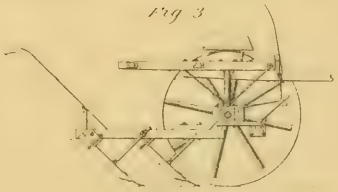
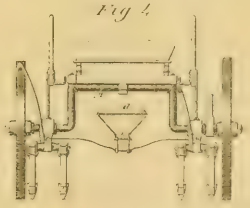


Fig 4

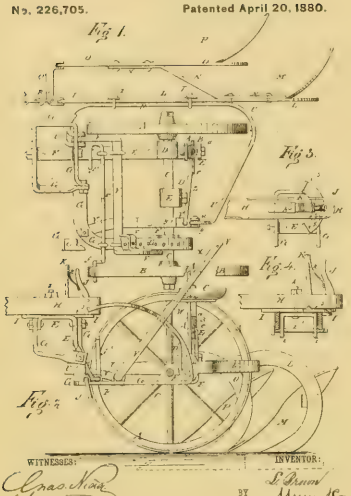


Witnesses:
Edward West
George W. Tatum

Inventor
Marion Glasscock

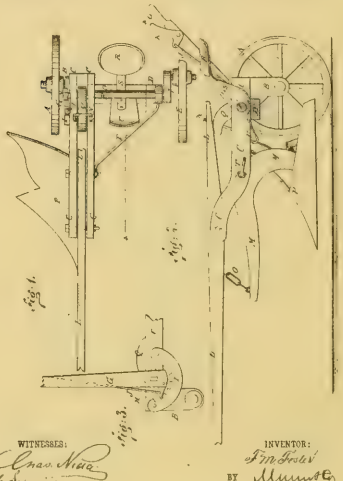
L. BROWN.
Sulky-Plow.

No. 226,705. Patented April 20, 1880.



F. M. FOSTER.
Sulky-Plow.

No. 226,739. Patented April 20, 1880.



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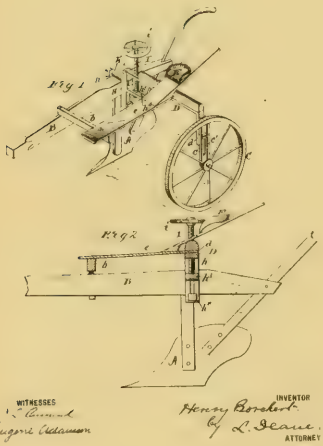
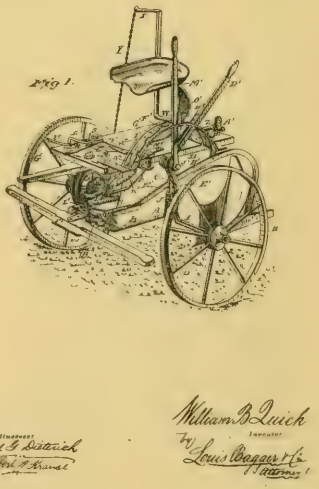
H. BOREHERT.
One-Wheel Plow.

No. 227,723. Patented May 18, 1880.



W. B. QUICK.
Sulky-Plow.

No. 228,616. Patented June 8, 1880.



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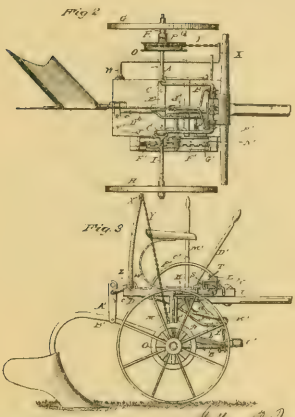
W. B. QUICK.
Sulky-Plow.

No. 228,676. Patented June 8, 1880.



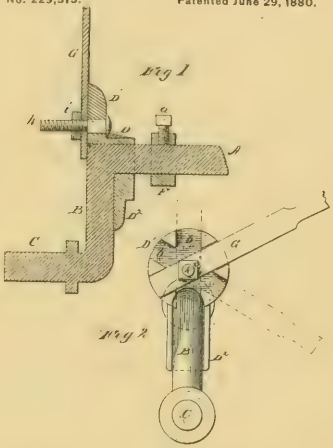
WITNESSES
Rich & Dillenck
Albert H. Hood

William B. Quick
INVENTOR
by Louis Bagger & Co
ATTORNEYS

(No Model.) 2 Sheets—Sheet 1.

LeR. CAHILL.
Sulky Plow Carriage.

No. 229,375. Patented June 29, 1880.



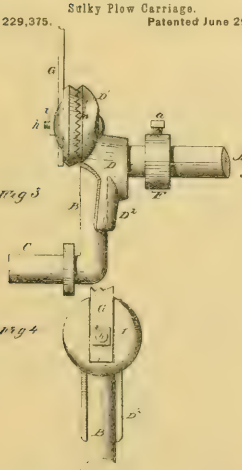
Witnesses
Frank H. Ward
J. J. McCally

Le Roy Cahill
Inventor
By Alexander Prinson
Atty

(No Model.) 2 Sheets—Sheet 2

LeR. CAHILL.
Sulky Plow Carriage.

No. 229,375. Patented June 29, 1880.



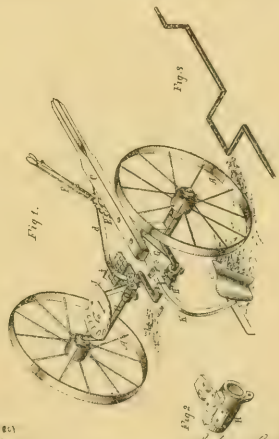
Witnesses
Frank H. Ward
J. J. McCally

L. Roy Cahill
Inventor
By Alexander Prinson
Atty

(No Model.)

S. GESLEY.
Sulky Plow.

No. 229,816. Patented July 13, 1880.



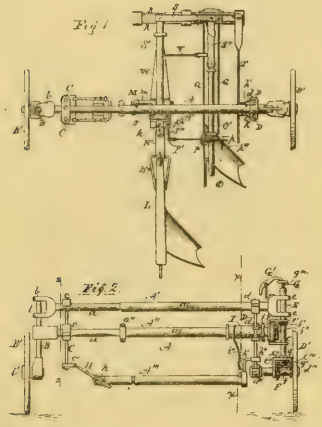
Witness
A. Van Horn
William Cotton

Seth Gesley
Inventor.

3 Sheets—Sheet 1.

R. HOLGATE.
Gang Plow.

No. 229,822. Patented July 13, 1880.



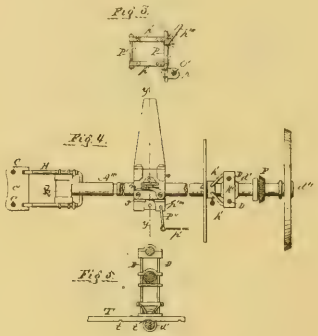
Witnesses:
M. H. Bassinger
E. H. Richards

Inventor:
R. Holgate,
By W. B. Richards,
Atty.

3 Sheets—Sheet 2.

R. HOLGATE.
Gang Plow.

No. 229,822. Patented July 13, 1880.



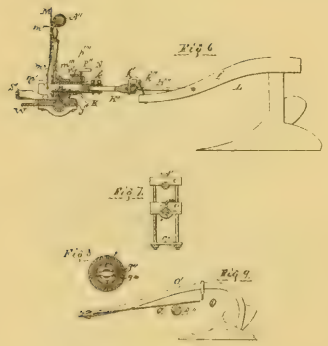
Witnesses:
M. H. Bassinger
E. H. Richards

Inventor:
R. Holgate,
By W. B. Richards,
Atty.

3 Sheets—Sheet 3.

R. HOLGATE.
Gang Plow.

No. 229,822. Patented July 13, 1880.



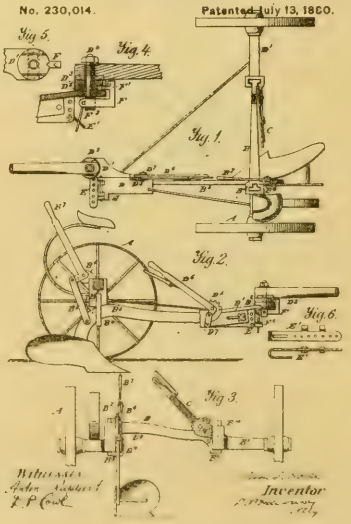
Witnesses:
M. H. Bassinger
E. H. Richards

Inventor:
R. Holgate,
By W. B. Richards,
Atty.

(No Model.)

J. I. HOXE.
Sulky Plow.

No. 230,014. Patented July 13, 1880.

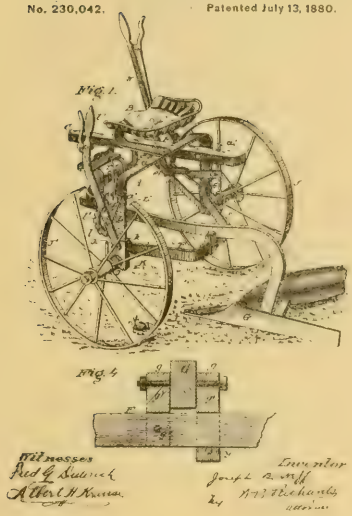


Witnesses:
Inventor:

2 Sheets—Sheet 1

J. B. NEFF.
Sulky Plows.

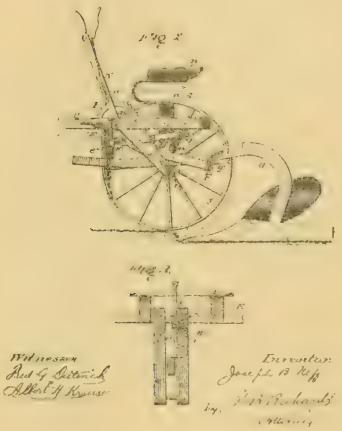
No. 230,042. Patented July 13, 1880.



2 Sheets—Sheet 2

J. B. NEFF.
Sulky Plows

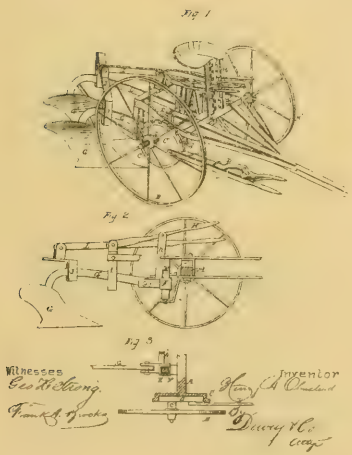
No. 230,042. Patented July 13, 1880.



(No Model.)

H. A. OLMSTED.
Gang Plow.

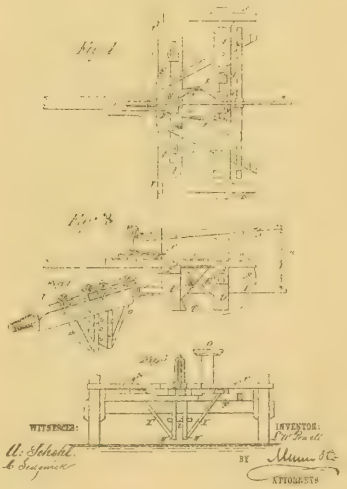
No. 230,192. Patented July 20, 1880.



(No Model.)

L. W. POWELL.
Sulky Plow.

No. 230,335. Patented July 20, 1880.



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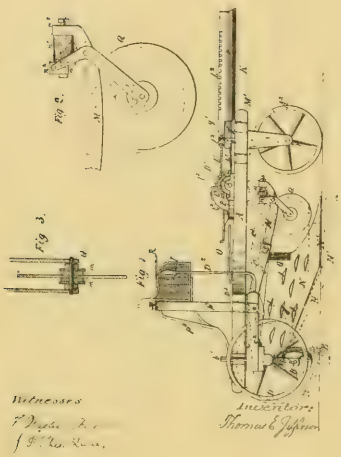
T. E. JEFFERSON

Plow.

No. 230,419. Patented July 27, 1880.

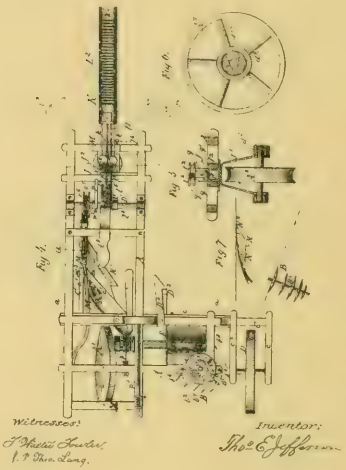


(No Model.) 6 Sheets—Sheet 2

T. E. JEFFERSON.

Plow.

No. 230,419 Patented July 27, 1880.

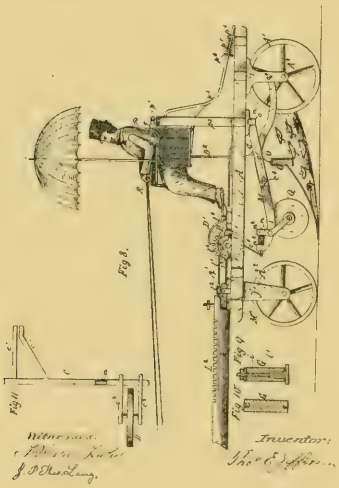


(No Model.) 6 Sheets—Sheet 3

T. E. JEFFERSON.

Plow.

No. 230,419. Patented July 27, 1880.

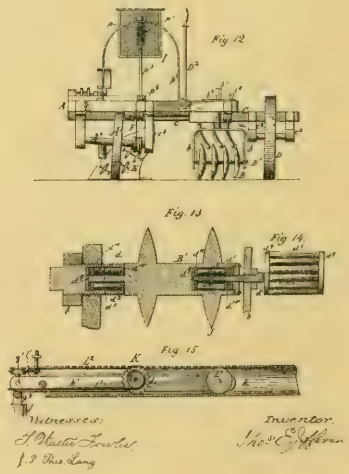


(No Model.) 6 Sheets—Sheet 4.

T. E. JEFFERSON.

Plow.

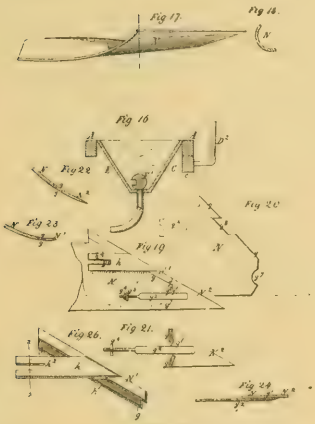
No. 230,419. Patented July 27, 1880.



(No Model.) 6 Sheets—Sheet 5

T. E. JEFFERSON.
Plow.

No. 230,419. Patented July 27, 1880.



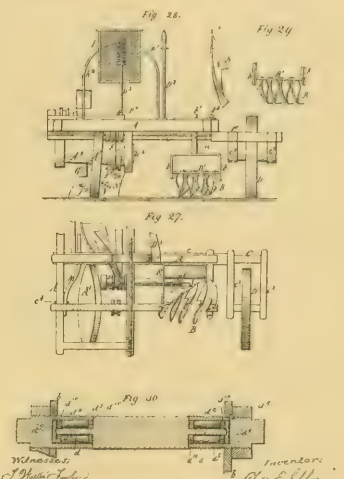
Witnesses:
J. Walter Fowler,
J. R. Thos. Lang

Inventor:
Thos. E. Jefferson

(No Model.) 6 Sheets—Sheet 6.

T. E. JEFFERSON.
Plow.

No. 230,419. Patented July 27, 1880.

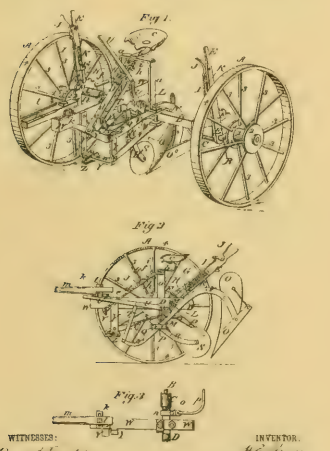


Witnesses:
J. Walter Fowler
J. R. Thos. Lang

Inventor:
Thos. E. Jefferson

R. E. REEVES.
Sulky Plow.

No. 230,497. Patented July 27, 1880.



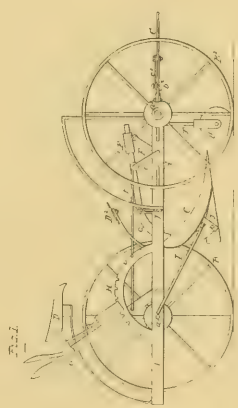
WITNESSES:
Dinn F. Crosbell
E. Sedgwick

INVENTOR:
R. E. Reeves
BY Munn & Co.
ATTORNEYS

(No Model.) 2 Sheets—Sheet 1.

R. M. CLARK.
Wheel Plow.

No. 230,528. Patented July 27, 1880.



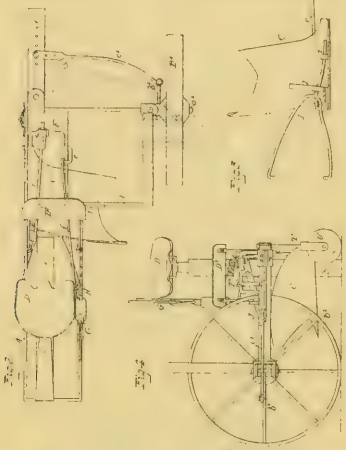
Attest:
Anthony J. Odell
W. H. Dwyer Dodge

Inventor:
R. M. Clark
Per Wm. Stevenson
Rochester N.Y.

(No Model.) 2 Sheets—Sheet 2.

E. M. CLARK.
Wheel Plow.

No. 230,528. Patented July 27, 1880.

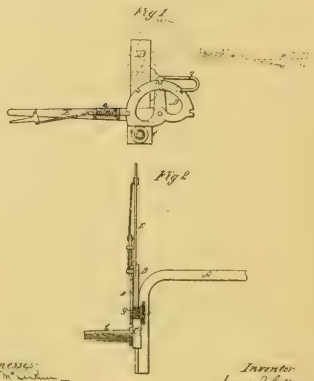


Witnesses:
Courtney Stokes
William Paxton

E. M. Clark
By his Attorneys
Hickey & Hickey.

I. R. GILBERT.
Wheel Plow.

No. 230,767. Patented Aug. 3, 1880.



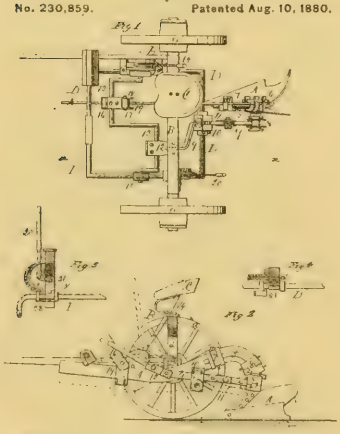
Witnesses:
W. C. McCracken
John R. Bogard

Inventor
Israel R. Gilbert
per
T. H. Alexander & Gilbert
Attorneys

(No Model.)

J. H. BROWN.
Sulky Plow.

No. 230,859. Patented Aug. 10, 1880.

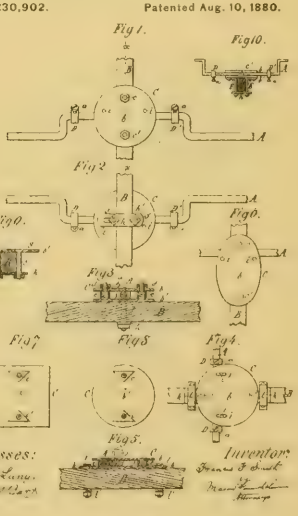


Witnesses
F. H. Hammond
L. W. Smith

Inventor
John H. Brown
per E. W. Lapham & Co.
Attorneys

F. F. SMITH.
Couplings for Sulky and other Plows.

No. 230,902. Patented Aug. 10, 1880.



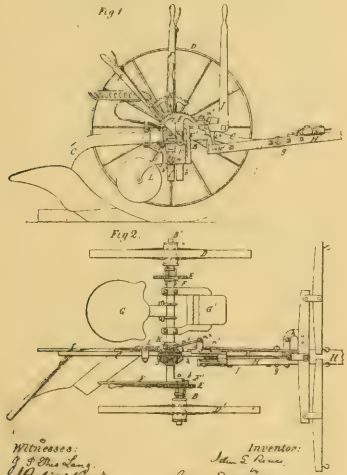
Witnesses:
F. F. Smith Lane
Stephen Clark

Inventor
Francis F. Smith
Munn & Co.
Attorneys

(No Model.) 2 Sheets—Sheet 1

J. L. REUSS.
Wheel Plow.

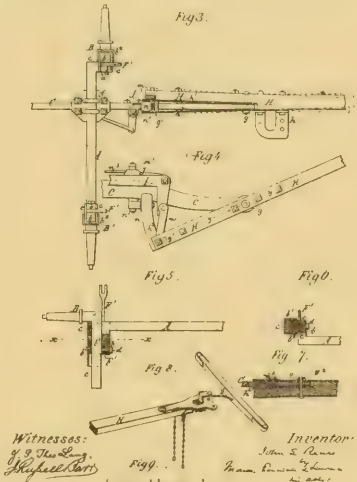
No. 231,193. Patented Aug. 17, 1880.



(No Model.) 2 Sheets—Sheet 2

J. L. REUSS.
Wheel Plow.

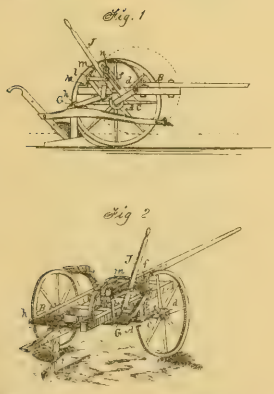
No. 231,193. Patented Aug. 17, 1880.



(No Model.)

H. H. CANADAY.
Sulky Plow.

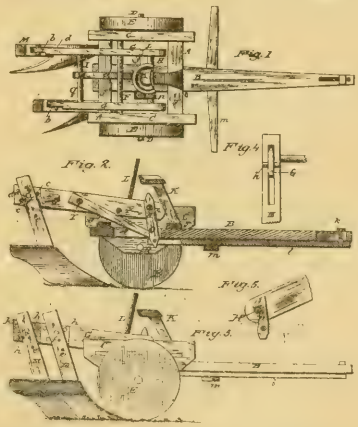
No. 231,210. Patented Aug. 17, 1880.



(No Model.)

M. A. ELLIOTT.
Plow.

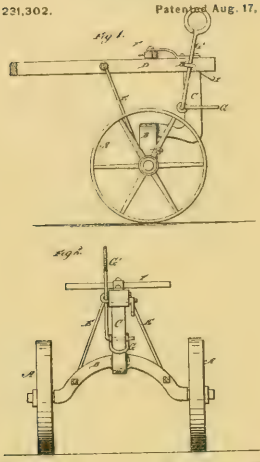
No. 231,218. Patented Aug. 17, 1880.



(No Model.)

S. W. FLEMING.
Plow Truck.

No. 231,302. Patented Aug. 17, 1880.

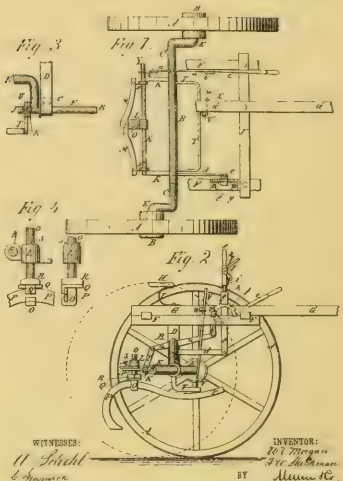


WITNESSES:
James J. Shelby.

INVENTOR
Samuel W. Fleming
by J. Clement Smith
ATTORNEYS

W. V. MORGAN & T. W. HACKMAN.
Sulky Plow.

No. 232,052. Patented Sept. 7, 1880.



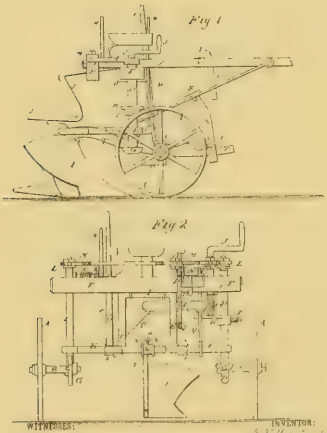
WITNESSES:
H. Schehl
C. Sugrue

INVENTOR:
W. V. Morgan
T. W. Hackman
BY Munn & Co.
ATTORNEYS

(No Model.) 2 Sheets—Sheet 1

T. T. HARRISON.
Sulky Plow.

No. 232,268. Patented Sept. 14, 1880.



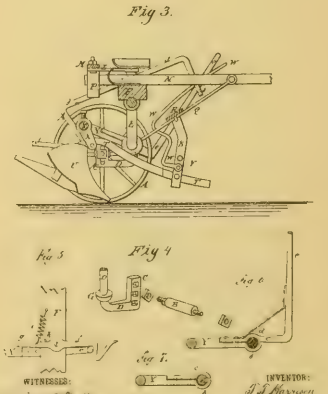
WITNESSES:
King N. Miller
C. Sugrue

INVENTOR:
T. T. Harrison
BY Munn & Co.
ATTORNEYS

(No Model.) 2 Sheets—Sheet 2

T. T. HARRISON.
Sulky Plow.

No. 232,268. Patented Sept. 14, 1880.



WITNESSES:
King N. Miller
C. Sugrue

INVENTOR:
T. T. Harrison
BY Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 1

C. F. GODDARD.
Plow.

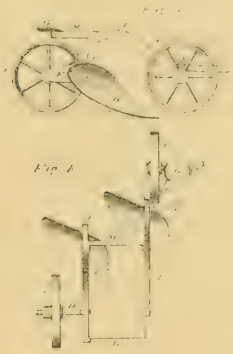
No. 232,345. Patented Sept. 21, 1880.

Witnesses: Geo. F. Fogg, Eugene L. Emmons. Inventor: Charles F. Goddard.

2 Sheets—Sheet 2

C. F. GODDARD
Plow.

No. 232,345. Patented Sept. 21, 1880.

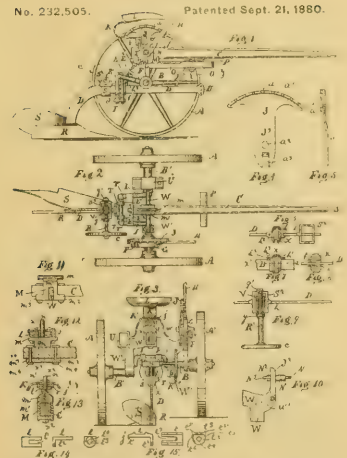


Witnesses: Geo. F. Fogg, Eugene L. Emmons. Inventor: Charles F. Goddard.

(Model.)

F. B. HUNT
Sulky Plow.

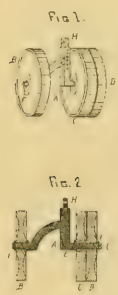
No. 232,505. Patented Sept. 21, 1880.



WITNESSES: Selora Phillips, D. G. H. Bennett. INVENTOR: Franklin B. Hunt, per E. G. Fleming, his Attorney.

A. LATHAM.
Plow Truck.

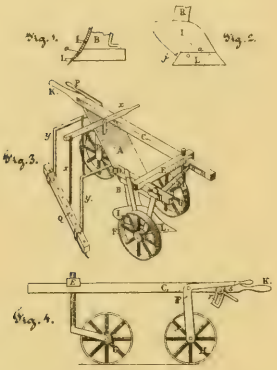
No. 232,515. Patented Sept. 21, 1880.



WITNESSES: Arthur S. Gurney, William F. Middleton. INVENTOR: Adolphus Latham, per G. H. Strong, Atty.

T. POWELL.
Gang Plow.

No. 232,845. Patented Oct. 5, 1880.



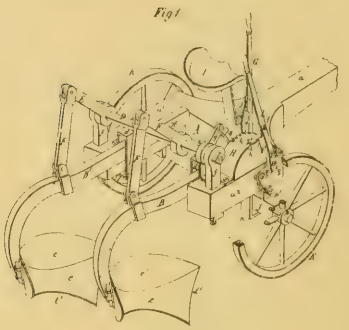
Witnesses:
W. Hy. Duckett
H. S. Clark

Inventor:
Thomas Powell
per J. L. Boone
Attorney.

2 Sheets—Sheet 1

S. H. WOOLDRIDGE.
Gang Plow.

No. 232,867. Patented Oct. 5, 1880.



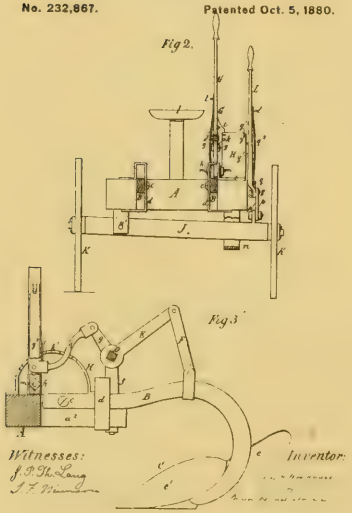
Witnesses:
J. P. Th. Lang
J. F. Munson

Inventor:
Silas H. Wooldridge
by
Wm. Dennison.

2 Sheets—Sheet 2

S. H. WOOLDRIDGE.
Gang Plow.

No. 232,867. Patented Oct. 5, 1880.



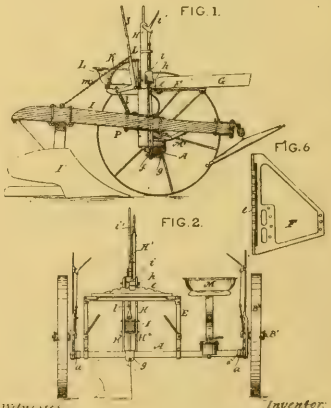
Witnesses:
J. P. Th. Lang
J. F. Munson

Inventor:

(Model.) 2 Sheets—Sheet 1

H. GOLLYER
Plow.

No. 233,088. Patented Oct. 12, 1880.



Witnesses
P. B. Langing
Ann E. McNeill jr.

Inventor:
Henry Gollyer
by Robt. S. Lacey Attys

(Model.) 2 Sheets—Sheet 2.

H. GOLLYER.
Plow.

No. 233,088. Patented Oct. 12, 1880

FIG. 3.

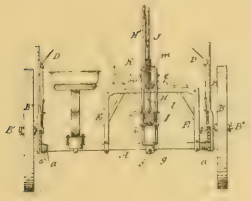


FIG. 4

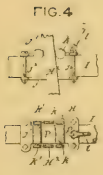
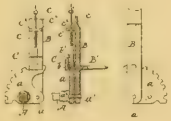


FIG. 5



Witnesses:
C. H. Lincoln
Wm. B. Wright Jr.

Inventor.
Henry Gollyer
By Robt. A. Lacey Attys.

(No Model.)

S. PETERS.
Plow Truck.

No. 233,276 Patented Oct. 12, 1880.

Fig 1

Fig 2

Witnesses:
A. H. Lee
J. S. Barclay

Inventor
Samuel Peters
by Coulliday & Bliss
Attys

(No Model.)

H. BORCHERT.
One Wheel Plow.

No. 233,722. Patented Oct. 26, 1880.

Fig 1.

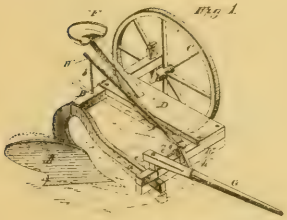


Fig. 2

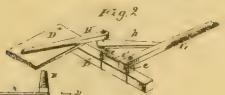


Fig. 3

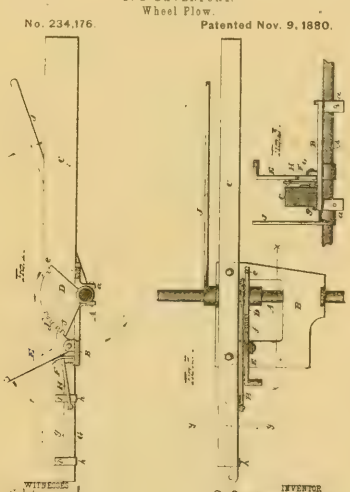
Witnesses
Frank L. Aurand
Robert Lynch

Inventor.
Henry Borchert.
By L. Deane
Atty

(No Model.)

F. S. DAVENPORT.
Wheel Plow.

No. 234,176. Patented Nov. 9, 1880.



WITNESSES
C. H. Nelson
W. Wright Jr.

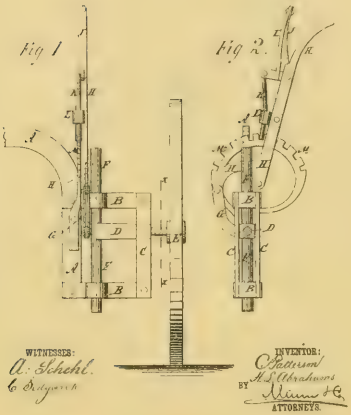
INVENTOR
F. S. Davenport
By Dewey & Co. Lawyers
ATTORNEYS

(No Model.)

C. PATTERSON & H. L. ABRAHAMS.

Sulky Plow.

No. 234,328. Patented Nov. 9, 1880.

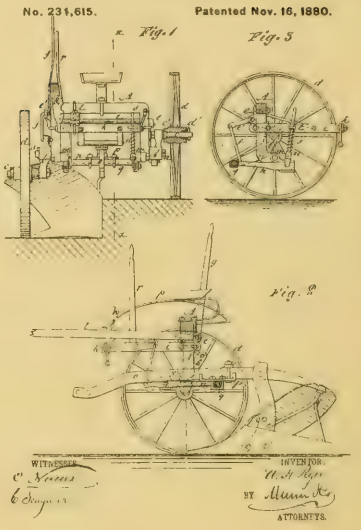


(Model.)

W. H. RYER.

Sulky Plow.

No. 231,615. Patented Nov. 16, 1880.

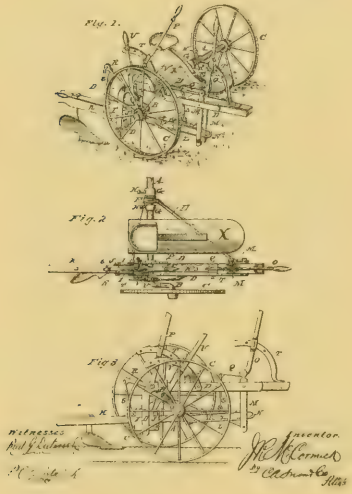


(No Model.)

J. R. McCORMICK

Sulky Plow.

No. 234,683. Patented Nov. 23, 1880.



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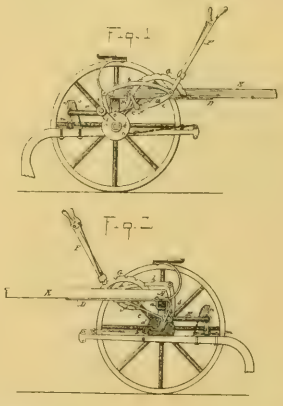
A. F. BERGQVIST.

Sulky Plow.

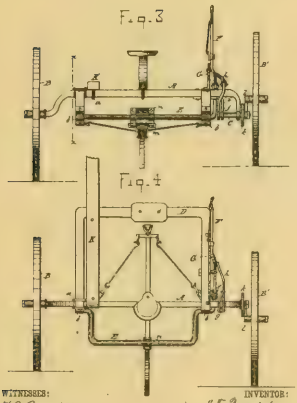
No. 234,743. Patented Nov. 23, 1880.



(No Model.) 2 Sheets—Sheet 2.

A. F. BERGQVIST.
Sulky Plow.

No. 234,743. Patented Nov. 23, 1880.



WITNESSES:
H. A. Brown
Edw. W. Byrn

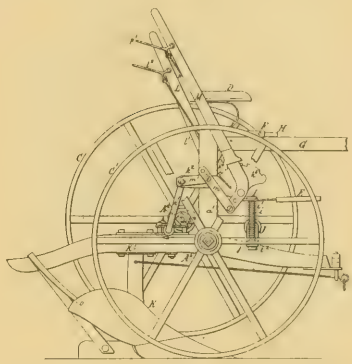
INVENTOR:
A. F. Bergqvist
BY
Munn & Co.
ATTORNEYS.

(No Model.) 2 Sheets—Sheet 1.

F. F. SMITH.
Sulky Plows.

No. 235,175. Patented Dec. 7, 1880.

Fig 1



Witnesses:
J. F. Munson
J. P. Theodling

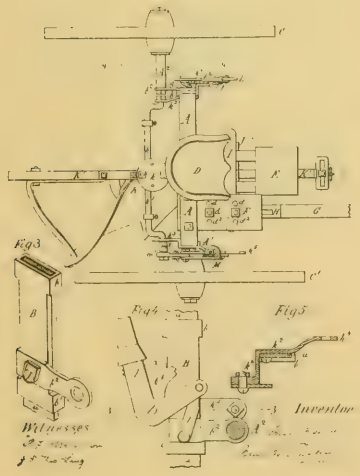
Inventor:
Francis F. Smith
Munn & Co.
Per Atty.

(No Model.) 2 Sheets—Sheet 2.

F. F. SMITH.
Sulky Plows.

No. 235,175. Patented Dec. 7, 1880.

Fig 2.



Witnesses
J. F. Munson
J. P. Theodling

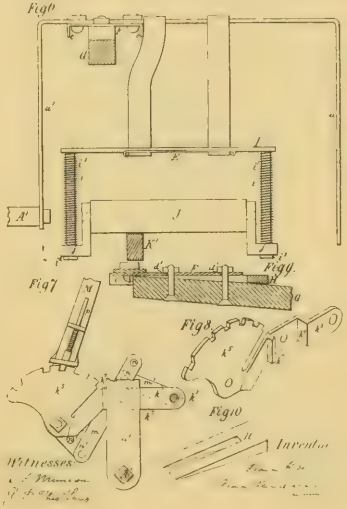
Inventor

(No Model.) 3 Sheets—Sheet 3

F. F. SMITH.
Sulky Plows.

No. 235,175. Patented Dec. 7, 1880.

Fig 6



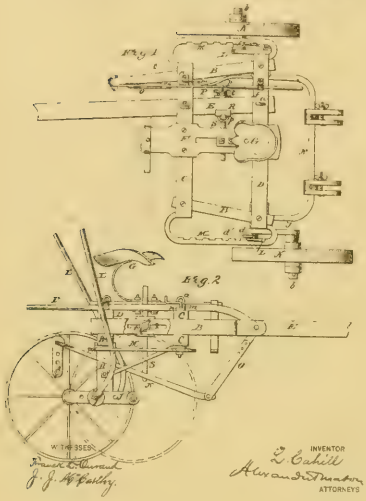
Witnesses
J. F. Munson
J. P. Theodling

Inventor
Francis F. Smith
Munn & Co.
Per Atty.

2 Sheets—Sheet 1.

L. R. CAHILL.
Sulky Plow.

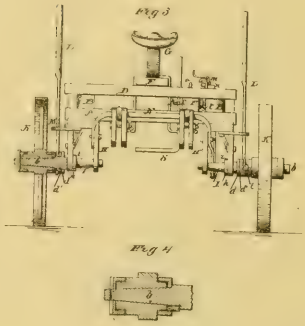
No. 235,205. Patented Dec. 7, 1880.



2 Sheets—Sheet 2.

L. R. CAHILL.
Sulky Plow.

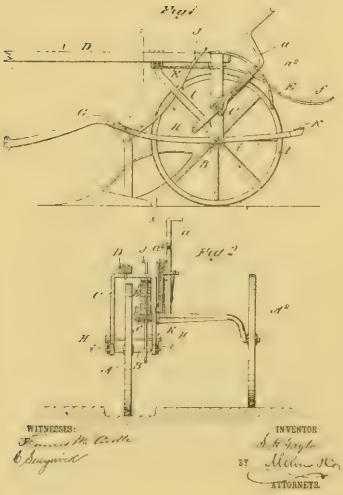
No. 235,205. Patented Dec. 7, 1880.



(Model.)

S. H. TAYLOR.
Sulky Plow.

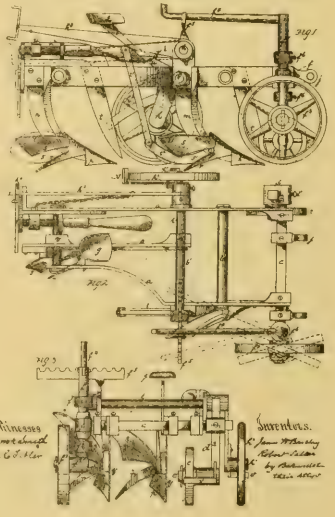
No. 235,313. Patented Dec. 7, 1880.



(No Model.)

J. W. BARCLAY & R. SELLAR.
Combined Plow and Digger.

No. 235,490. Patented Dec. 14, 1880.



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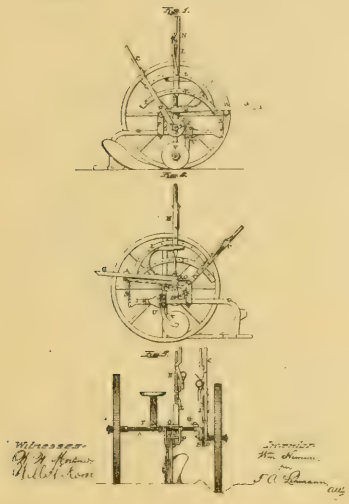
W. HEMME.
Sulky Plow.

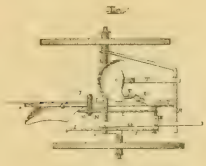
No. 235,767. Patented Dec. 21, 1880.



(No Model.) 2 Sheets—Sheet 2

W. HEMME.
Sulky Plow

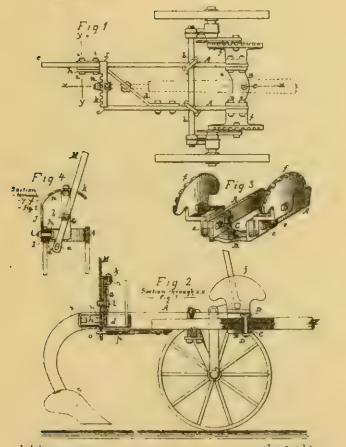
No. 235,767. Patented Dec. 21, 1880.



(No Model.)

C. MYERS.
Gang Plow.

No. 235,890. Patented Dec. 28, 1880.



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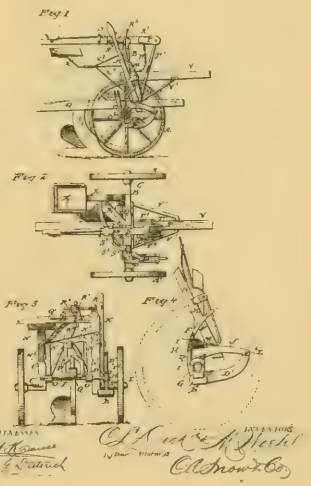
C. L. DICK & M. WOEHL.
Plow.

No. 236,146. Patented Jan. 4, 1881.



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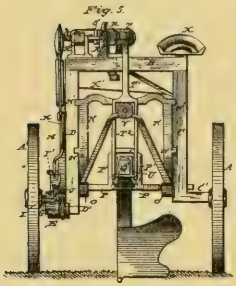
C. L. DICK & M. WOEHL.

Plow.

No. 236,146. Patented Jan. 4, 1881.



WITNESSES:

INVENTORS:

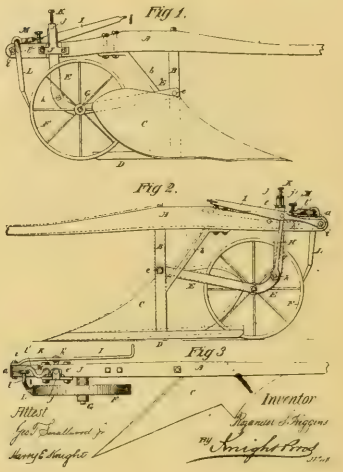
ATTORNEYS

(No Model.)

R. S. HIGGINS.

Sulky Plow.

No. 236,157. Patented Jan. 4, 1881.

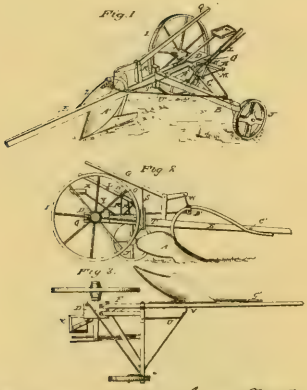


(No Model.)

G. S. TAPPAN.

Sulky Plow.

No. 236,193. Patented Jan. 4, 1881.



Witnesses:

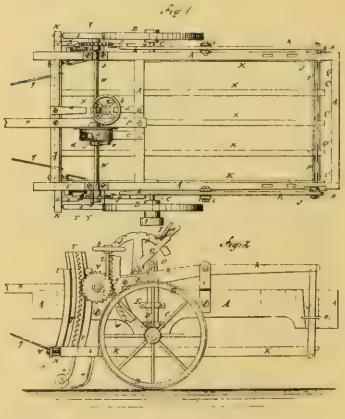
Inventor:

(Model.) 2 Sheets—Sheet 1.

R. J. BOWMAN.

Gang Plow, Planter and Cultivator.

No. 236,536. Patented Jan. 11, 1881.



WITNESSES:

INVENTOR:

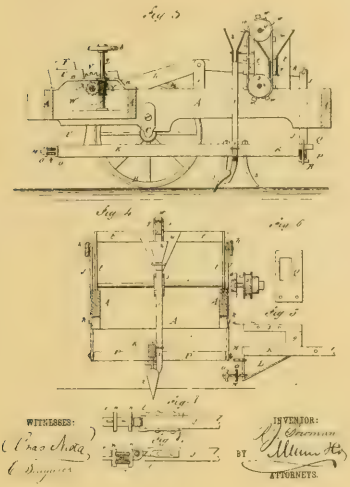
BY

ATTORNEYS.

(Model.) R. J. BOWMAN. 2 Sheets—Sheet 2.

Gang Plow, Planter and Cultivator.

No. 236,536. Patented Jan. 11, 1881.

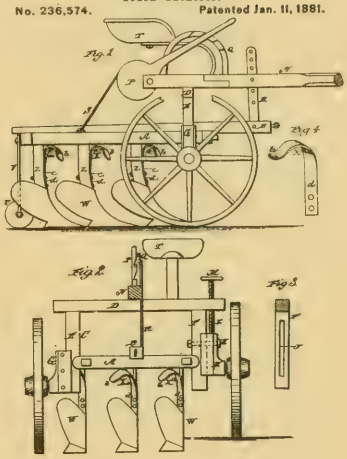


WITNESSES: INVENTOR: BY ATTORNEYS.

(No Model.) F. GIRTANNER.

Trash Gatherer.

No. 236,574. Patented Jan. 11, 1881.

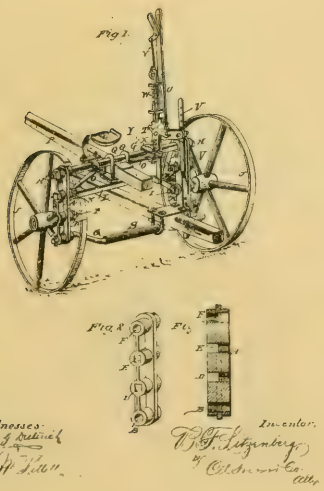


WITNESSES: INVENTOR: Fritz Girtanner.

(No Model.) B. F. LITZENBERG.

Sulky Plow.

No. 236,601. Patented Jan. 11, 1881.

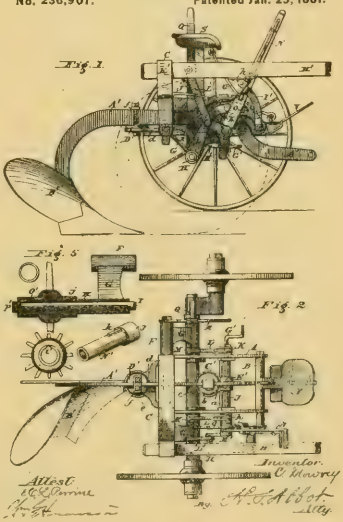


Witnesses: Inventor. By Attorneys.

(Model.) C. MOWREY. 2 Sheets—Sheet 1.

Sulky Plow.

No. 236,907. Patented Jan. 25, 1881.

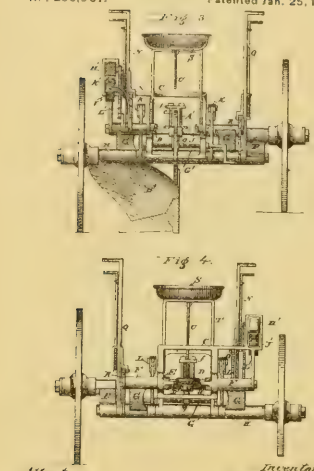


Attest: Inventor. C. Mowrey. Atty.

(Model.) 2 Sheets—Sheet 2

C. MOWREY.
Sulky Plow.

No. 236,907. Patented Jan. 25, 1881.

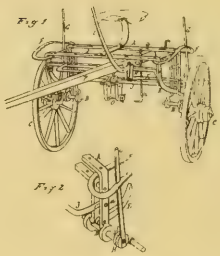


Witnesses
C. Perrine
H. E. Anderson

Inventor:
C. Mowrey
by H. S. Abbot Atty

O. E. GOODELL.
Plow Carriage.

No. 237,010. Patented Jan. 25, 1881.



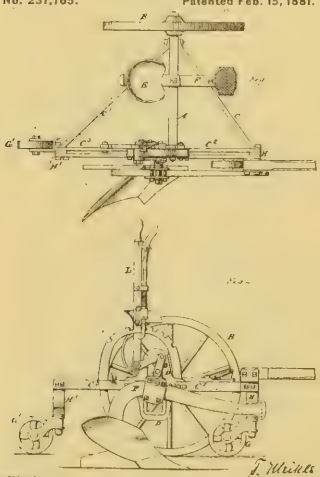
Witnesses
Thos. E. Kirby
[illegible]

Inventor:
O. E. Goodell
by his Atty
Geo. H. Fitzgerald

(No Model.)

T. MEIKLE.
Sulky Plow.

No. 237,765. Patented Feb. 15, 1881.



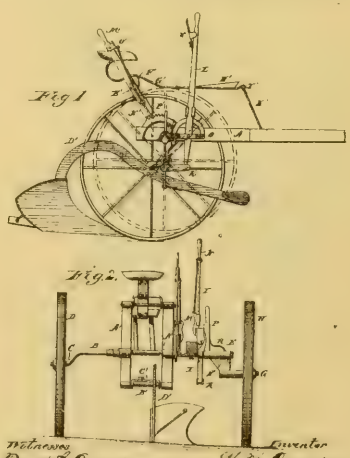
Witnesses
J. Gillison

T. Meikle
Inventor,
by R. Ulman
Atty

(Model.) 2 Sheets—Sheet 1

W. H. CUMMINGS.
Sulky Plow.

No. 237,824. Patented Feb. 15, 1881.



Witnesses
Robert S. Orwand
Fr. Sidney Lawrence

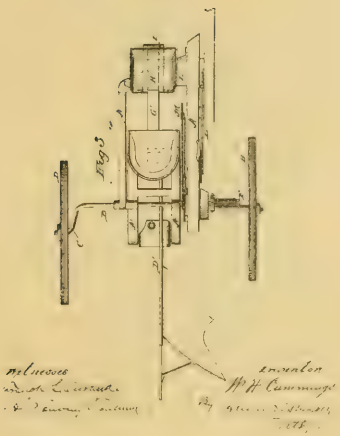
Inventor
W. H. Cummings
By Strauss & Traum
Atty

(Model.) 2 Sheets—Sheet 2

W. H. CUMMINGS.

Sulky Plow.

No. 237,824. Patented Feb. 15, 1881.

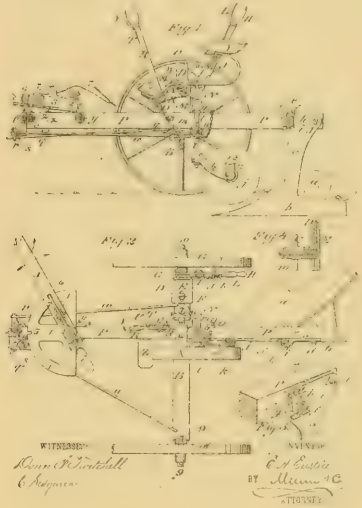


(Model.) 2 Sheets—Sheet 1

E. A. EUSTICE.

Sulky Plow.

No. 237,842. Patented Feb. 15, 1881.

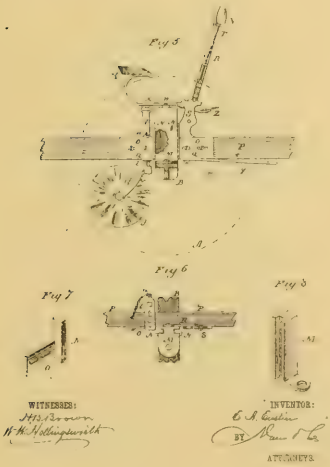


(Model.) 2 Sheets—Sheet 2

E. A. EUSTICE.

Sulky Plow.

No. 237,842. Patented Feb. 15, 1881.

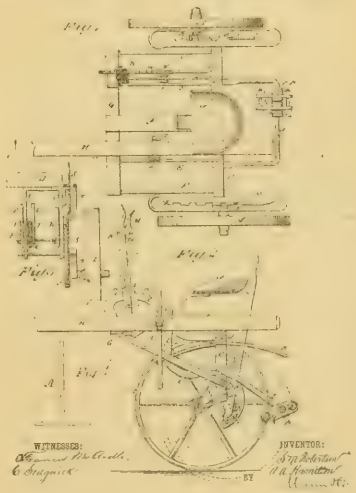


(Model.)

S. M. ROBERTSON & A. A. HAMILTON.

Sulky Plow.

No. 238,053. Patented Feb. 22, 1881.



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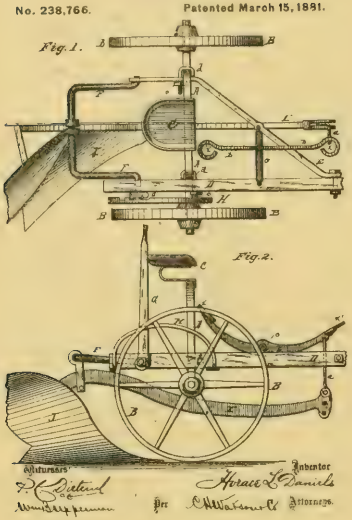
H. L. DANIELS.
Sulky Plow.

No. 238,766. Patented March 15, 1881.



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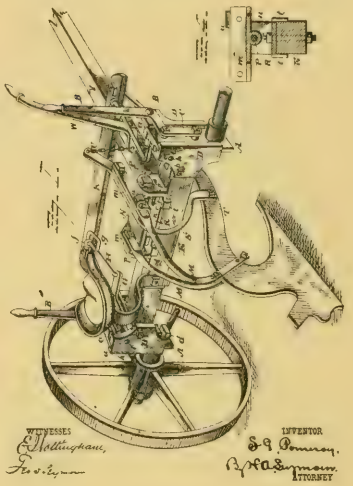
S. G. POMEROY.
Sulky Plow.

No. 238,808. Patented March 15, 1881.



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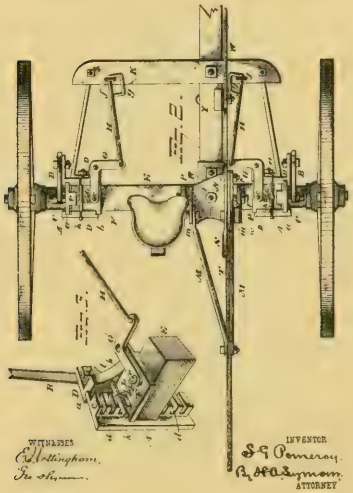
Sulky Plow.

No. 238,808. Patented March 15, 1881.



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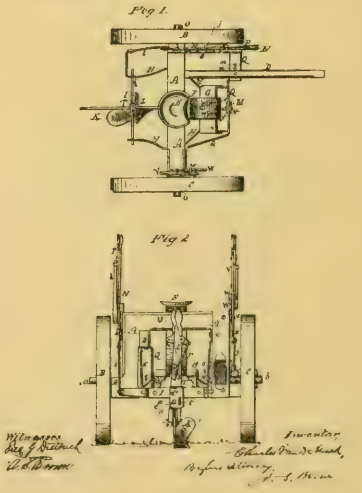
C. VAN DE MARK.
Riding Plow.

No. 238,993. Patented March 15, 1881.



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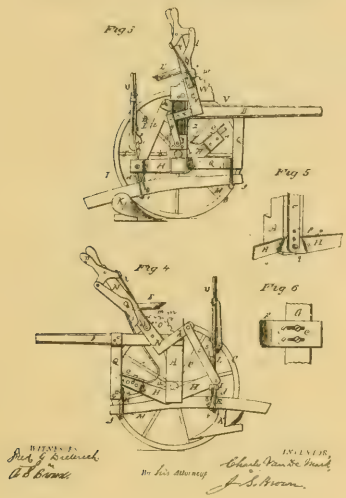
C. VAN DE MARK.
Riding Plow.

No. 238,993. Patented March 15, 1881.



Witnesses:
Geo. F. Bestwick
A. S. Barnes

Inventor:
Charles Van De Mark
By his Attorney
J. S. Brown

(No Model)

F. A. HILL.
Sulky Plow.

No. 239,249. Patented March 22, 1881.

Witness:
P. W. Barnes
Frank L. Middleton

Inventor:
Frank A. Hill
by Ellis & Spear
Atty

(Model)

J. A. MORSMAN.
Sulky Plow.

No. 239,530. Patented March 29, 1881.

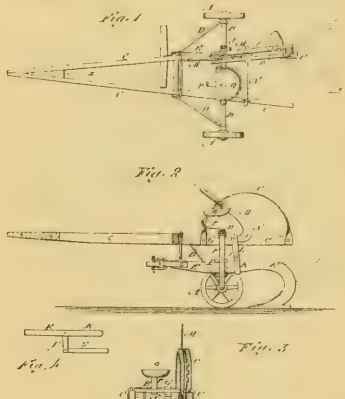
Witnesses:
Frank L. Ourand
J. J. McCarthy

Inventor
J. A. Morsman
By Munn & Co. Attys

(No Model.)

J. W. WITT.
Sulky Plow.

No. 239,587. Patented March 29, 1881.



WITNESSES:
C. Neviz
E. Edgerton

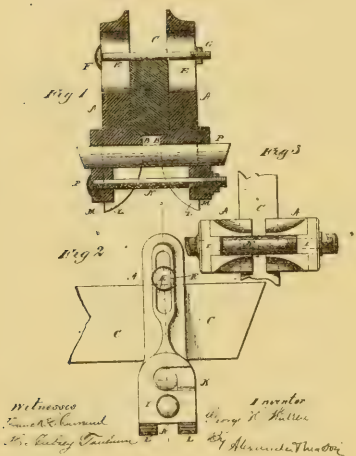
INVENTOR:
J. W. Witt
BY Munn & Co.
ATTORNEYS.

(Model.)

G. H. WARREN.

Clamp for Sulky Plows.

No. 240,207. Patented April 12, 1881.

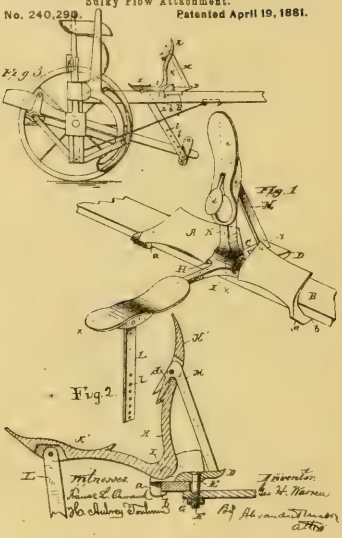


(No Model.)

G. H. WARREN.

Sulky Plow Attachment.

No. 240,299. Patented April 19, 1881.



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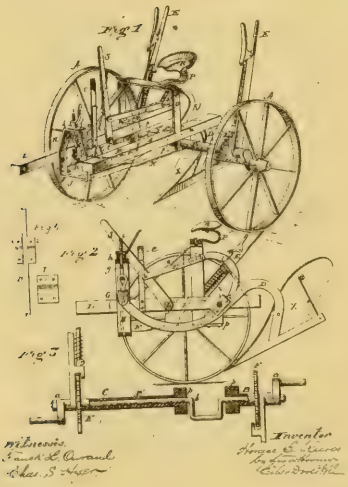
H. E. REEVES.

Sulky Plow.

No. 240,925. Patented May 3, 1881.

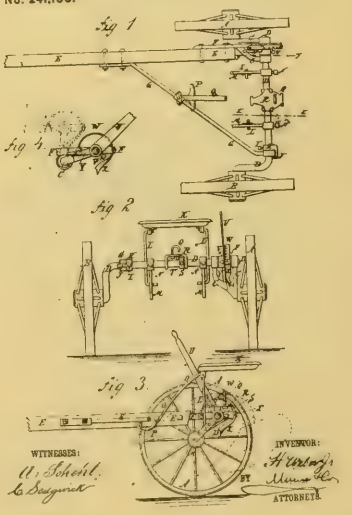


(Model.)

H. WEBER, Jr.

Plow Sulky.

No. 241,103. Patented May 3, 1881.



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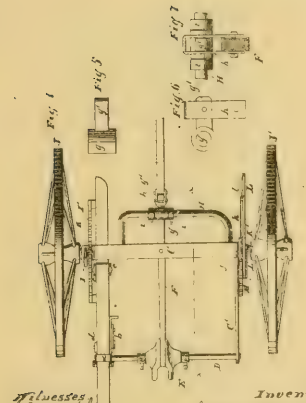
R. ELLWOOD.
Sulky Plow.

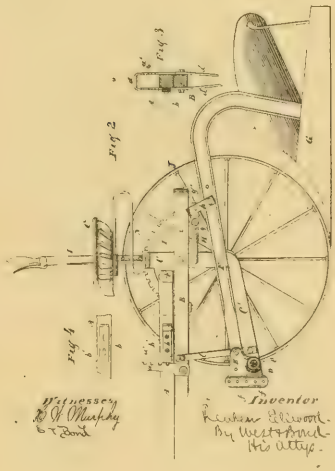
No. 241,848. Patented May 24, 1881.



2 Sheets—Sheet 2

R. ELLWOOD.
Sulky Plow.

No. 241,848. Patented May 24, 1881.



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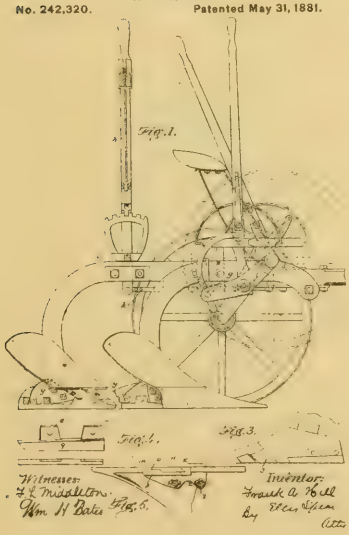
F. A. HILL.
Side Hill Plow.

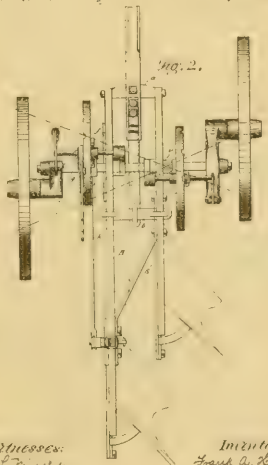
No. 242,320. Patented May 31, 1881.



(Model.) 2 Sheets—Sheet 2.

F. A. HILL.
Side Hill Plow.

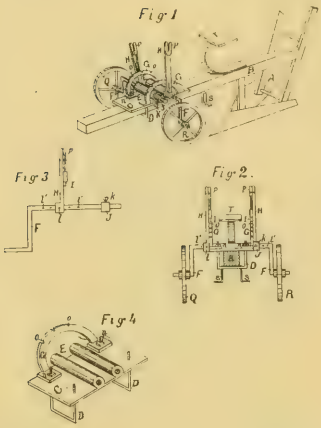
No. 242,320. Patented May 31, 1881.



(No Model.)

J. CATTON.
Plow Truck.

No. 242,431. Patented June 7, 1881.



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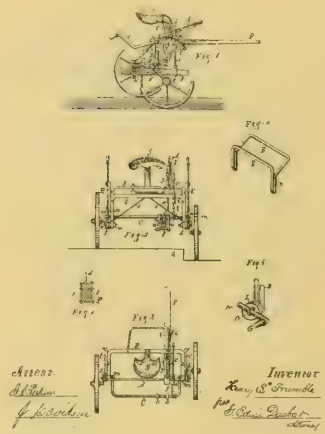
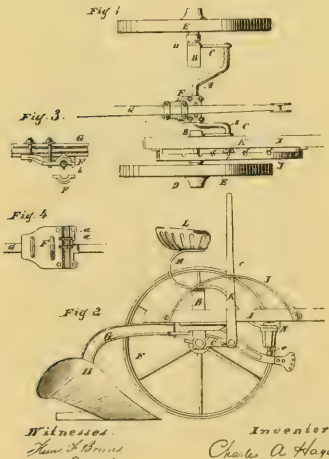
H. E. TRUMBLE
Riding Sulky for Plows.

No. 242,489. Patented June 7, 1881.



C. A. HAGUE.
Sulky Plow.

No. 243,125. Patented June 21, 1881.



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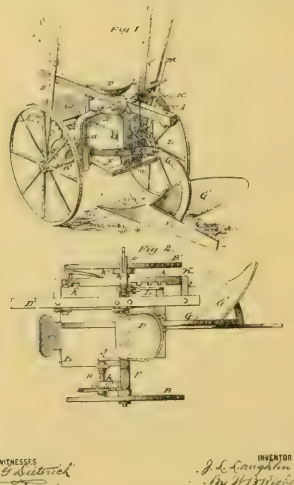
J. L. LAUGHLIN.
Wheel Plow.

No. 243,140. Patented June 21, 1881.



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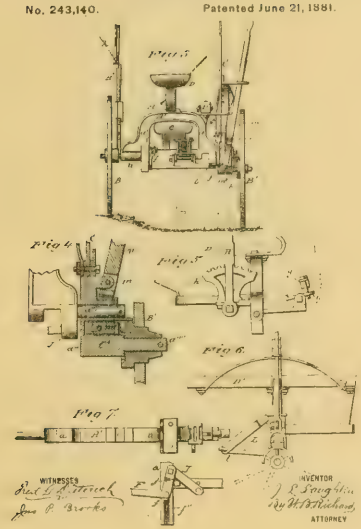
J. L. LAUGHLIN.
Wheel Plow.

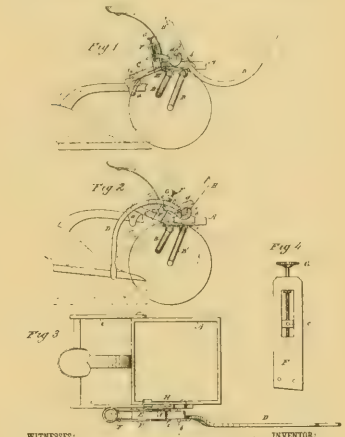
No. 243,140. Patented June 21, 1881.



(Model.)

S. T. FERGUSON.
Sulky Plow.

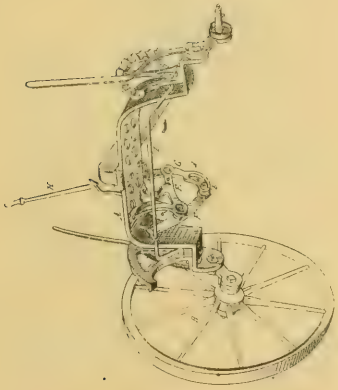
No. 243,236. Patented June 21, 1881.



(No Model.)

A. J. GALE.
Sulky Plow.

No. 243,242. Patented June 21, 1881.



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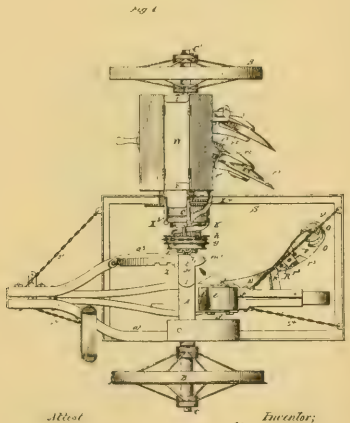
T. E. JEFFERSON.
Sulky Plow.

No. 243,676. Patented June 28, 1881.



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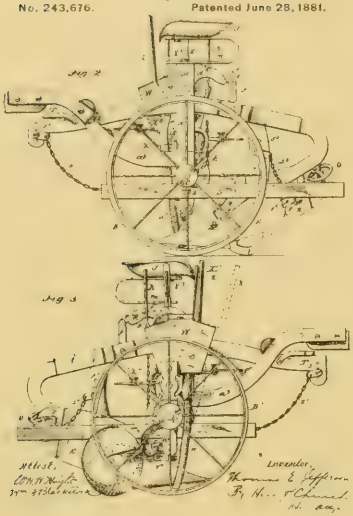
T. E. JEFFERSON
Sulky Plow.

No. 243,676. Patented June 28, 1881.



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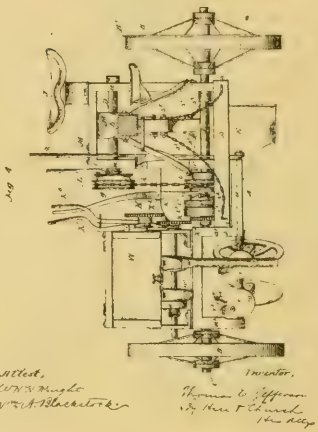
T. E. JEFFERSON
Sulky Plow.

No. 243,676. Patented June 28, 1881.



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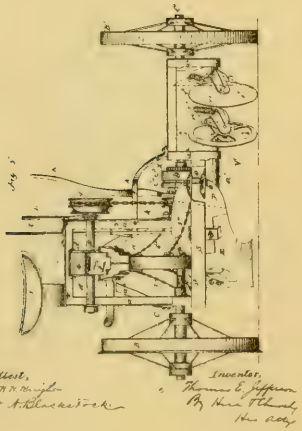
T. E. JEFFERSON.
Sulky Plow.

No. 243,676. Patented June 28, 1881.



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T. E. JEFFERSON.
Sulky Plow.

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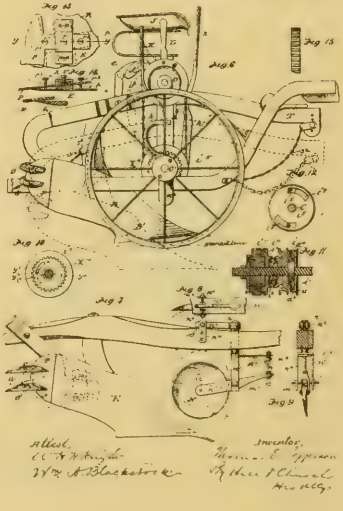


(No Model.) 6 Sheets—Sheet 1

T. E. JEFFERSON.

Plow.

No. 243,570. Patented June 28, 1881.

Witnesses;
Thos. Fowler
H. Clay Smith.

Inventor;
Thos. E. Jefferson

(No Model.) 6 Sheets—Sheet 2

T. E. JEFFERSON.

Plow

No. 243,570. Patented June 28, 1881.

Witnesses;
Thos. Fowler
H. Clay Smith

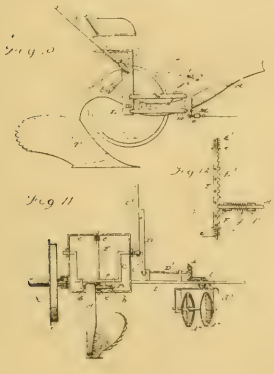
Inventor
Thos. E. Jefferson

(No Model.) 6 Sheets—Sheet 3

T. E. JEFFERSON.

Plow.

No. 243,570. Patented June 28, 1881.



Witnesses
Thos. Fowler
H. Clay Smith

Inventor.
Thos. E. Jefferson

(No Model.) 6 Sheets—Sheet 4

T. E. JEFFERSON.

Plow.

No. 243,570. Patented June 28, 1881.

Witnesses
H. Clay Smith

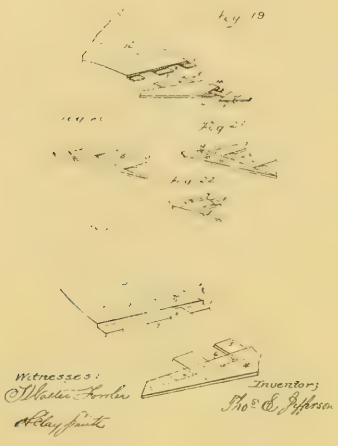
Inventor
Thos. E. Jefferson

(No Model.) 6 Sheets—Sheet 6

T. E. JEFFERSON.

Plow.

No. 243,570. Patented June 28, 1881.



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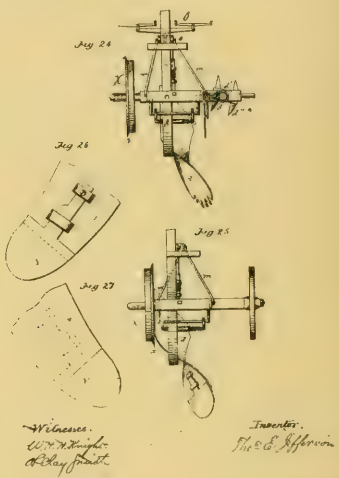
T. E. JEFFERSON.

Plow.

No. 243,570 Patented June 28, 1881.